

FIG. 1

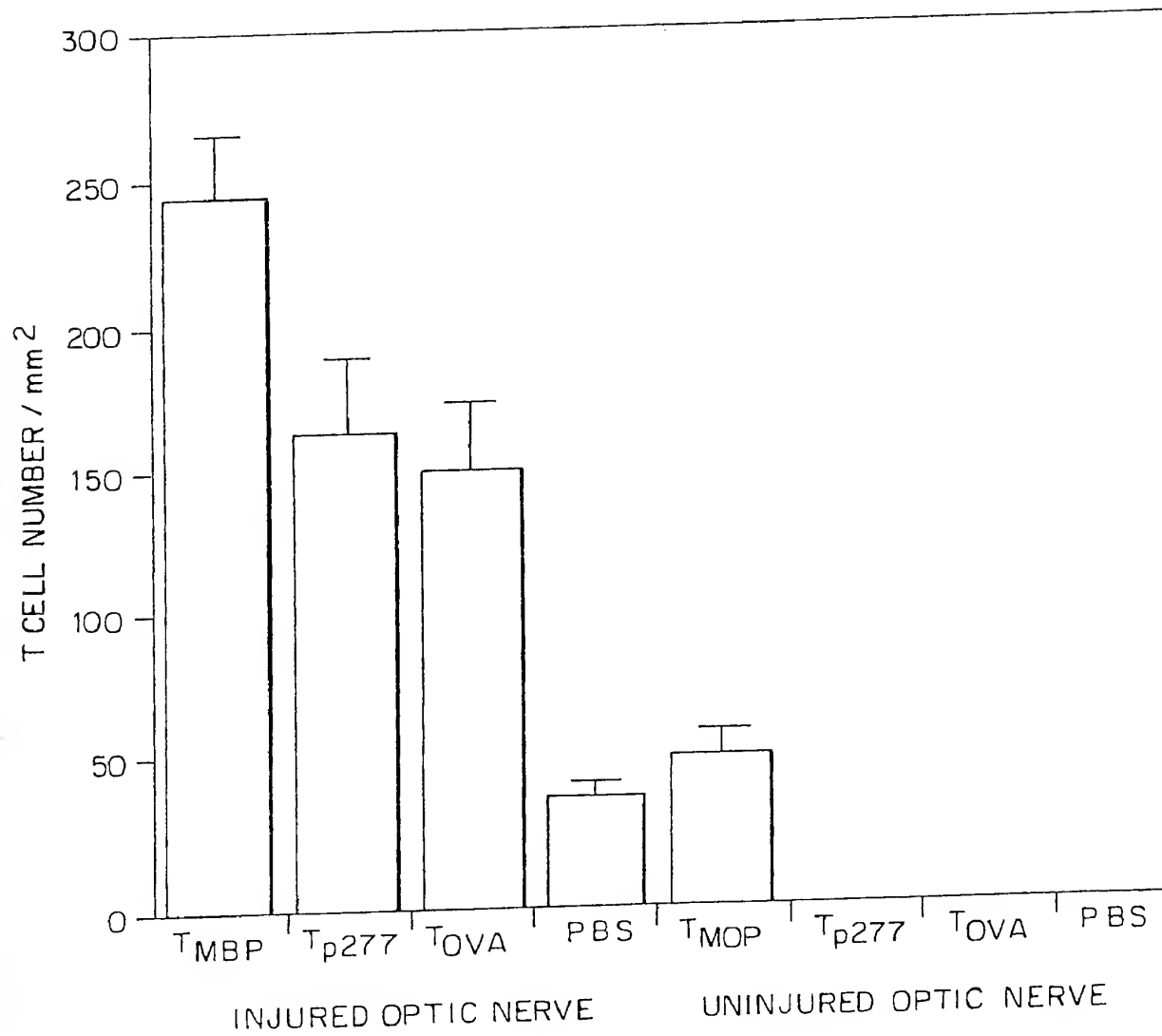


FIG. 2

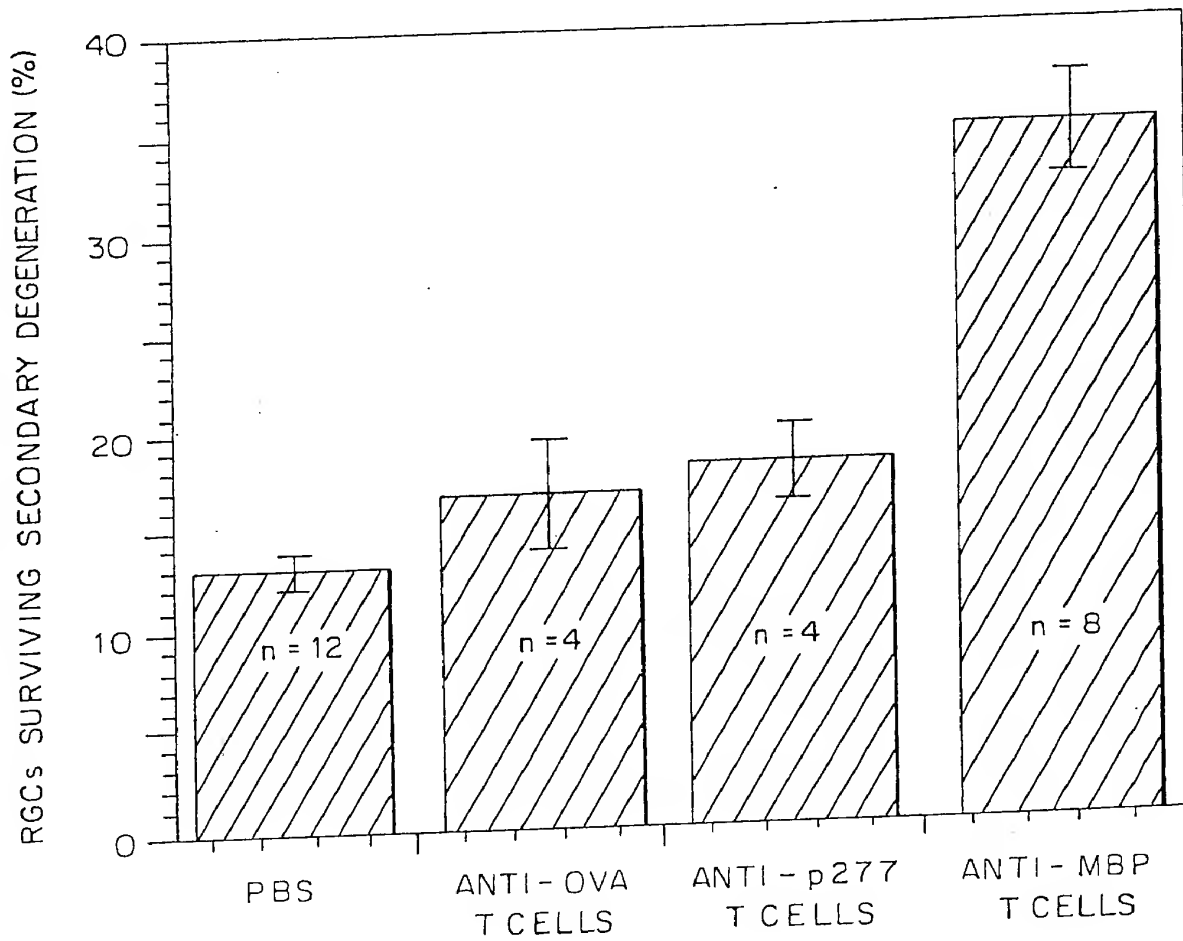


FIG.3A

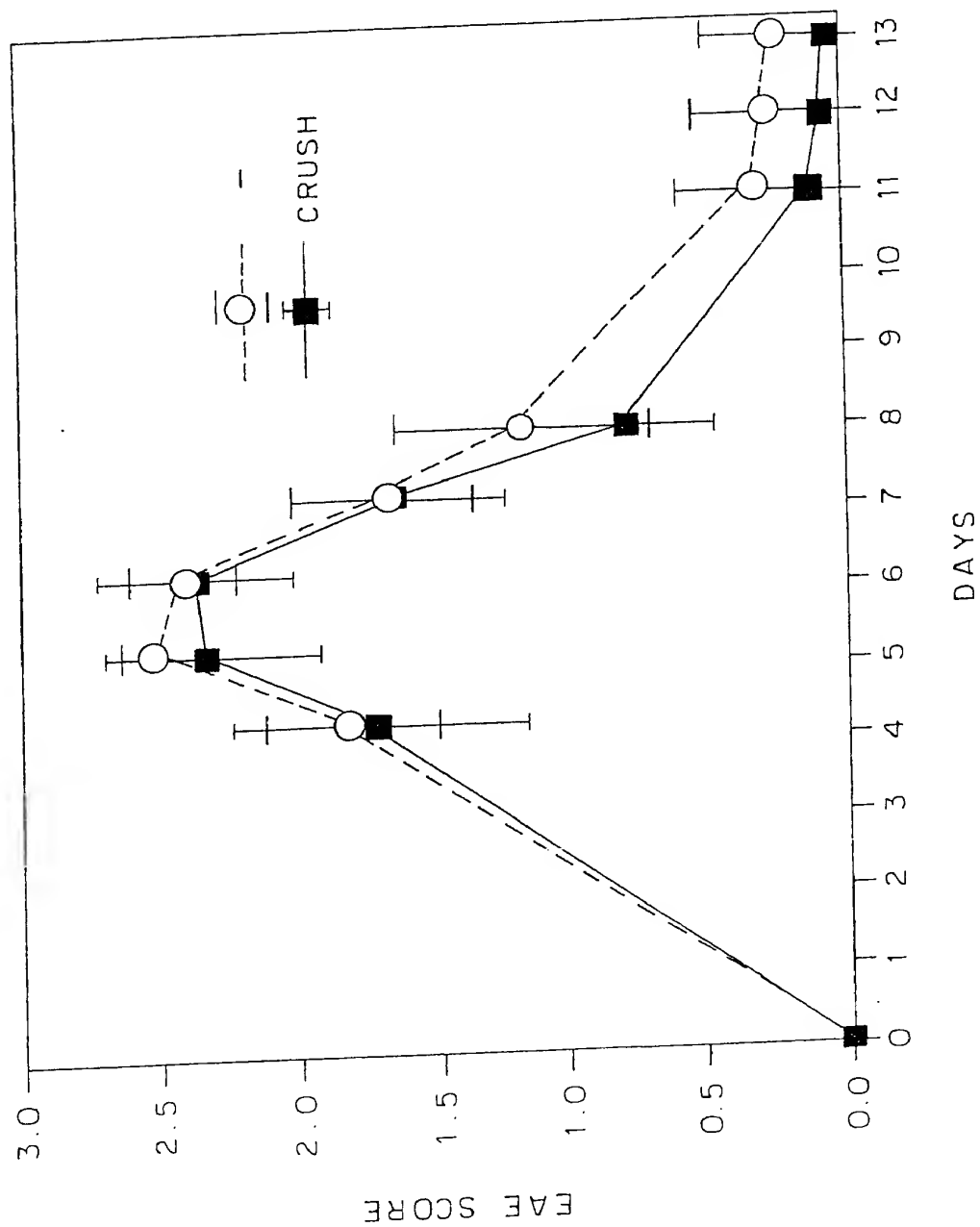
FIG.3B

FIG.3C



160μm

FIG. 4A



*FIG. 4B*

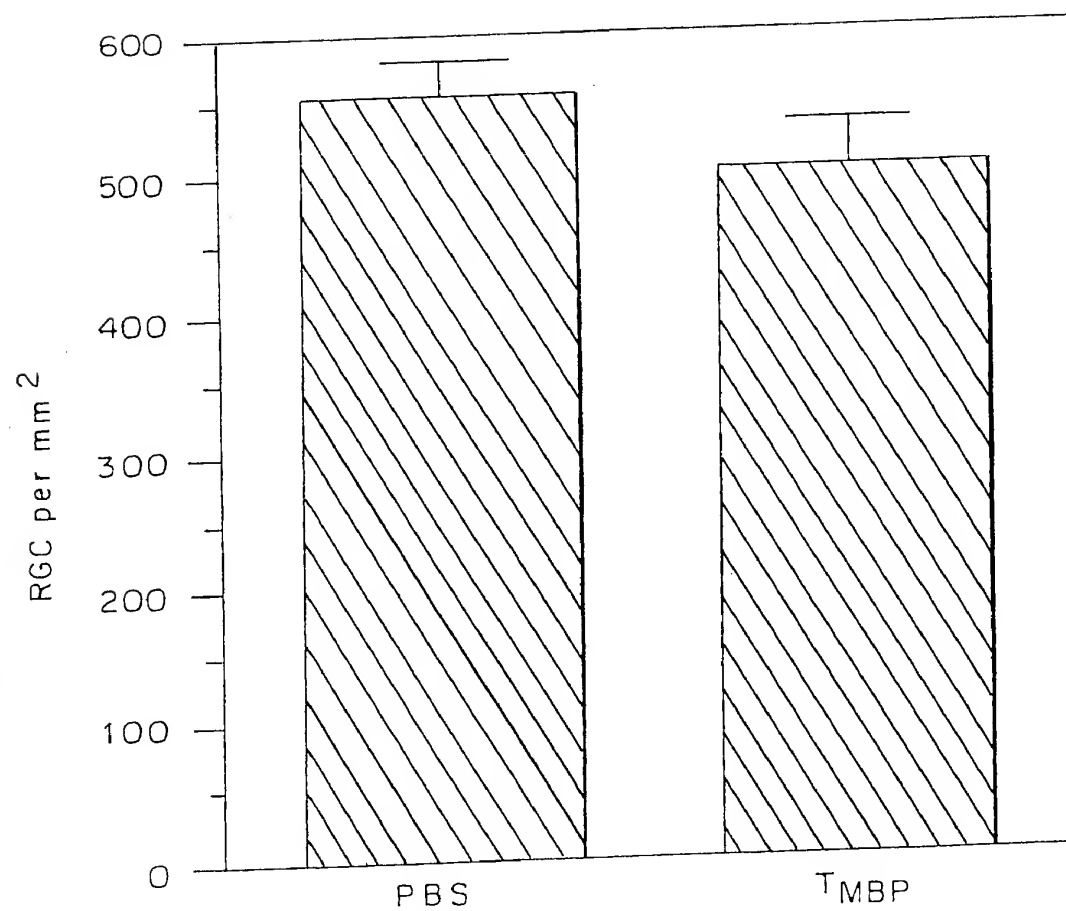


FIG. 5

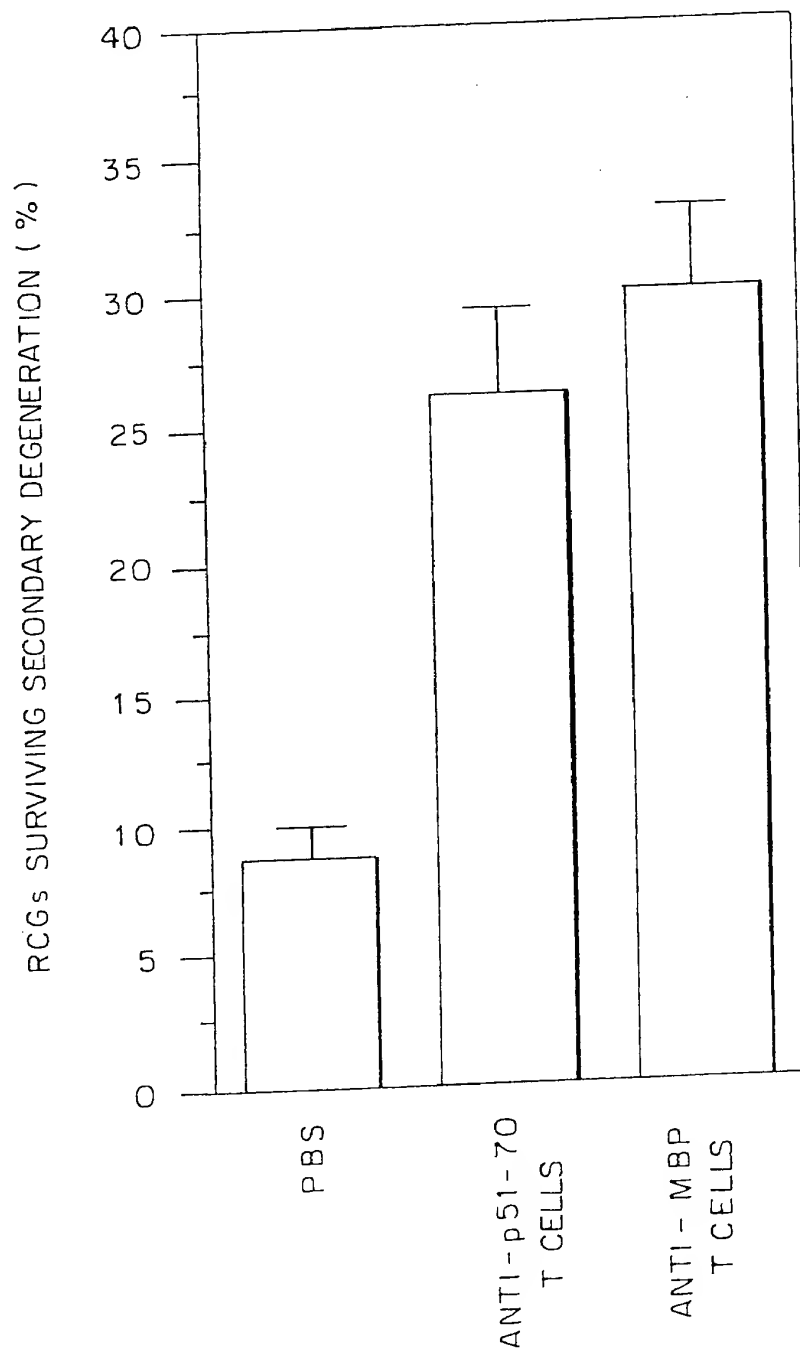


FIG. 6A

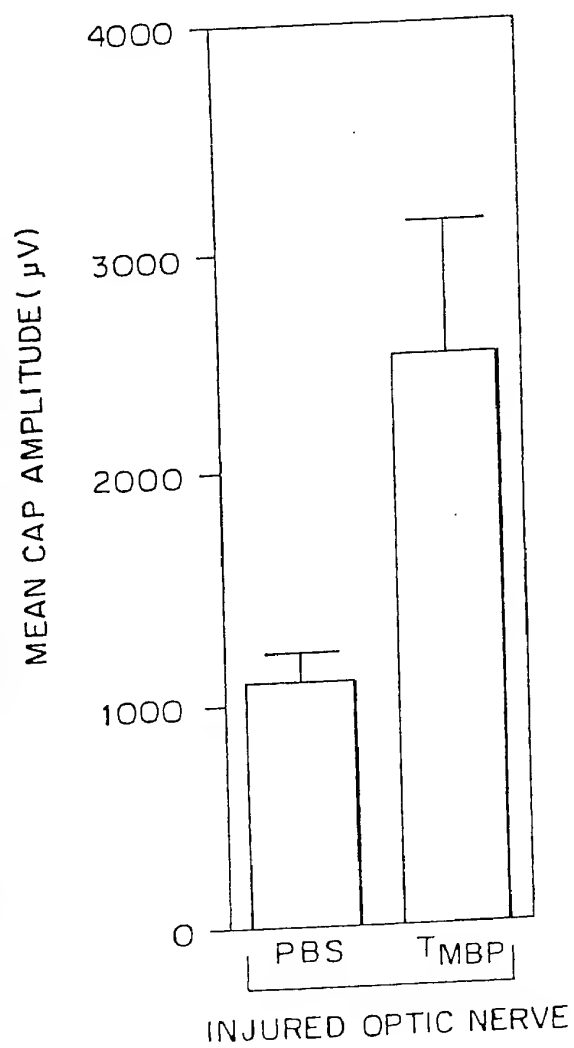


FIG. 6B

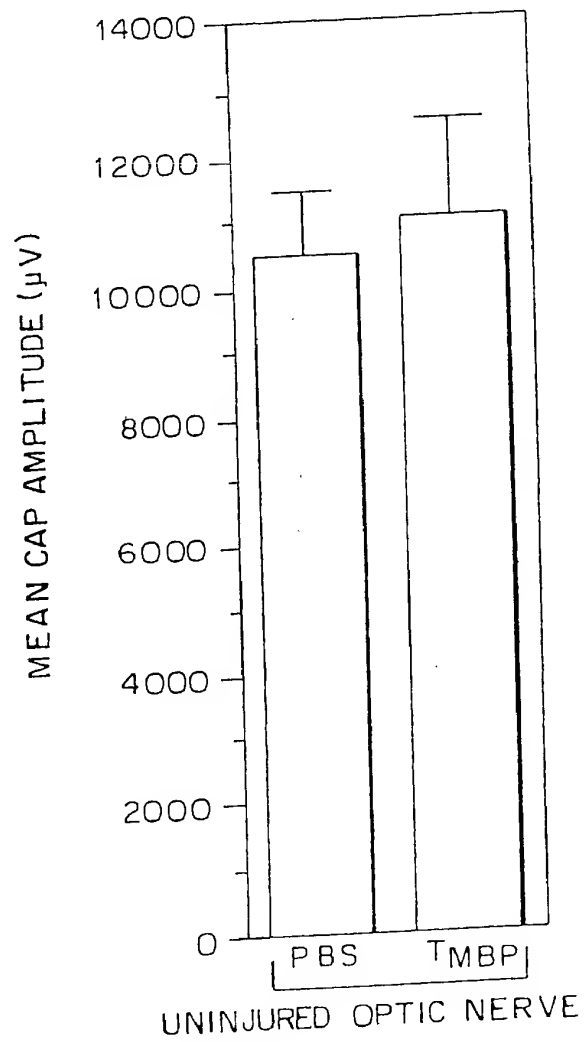


FIG. 7A

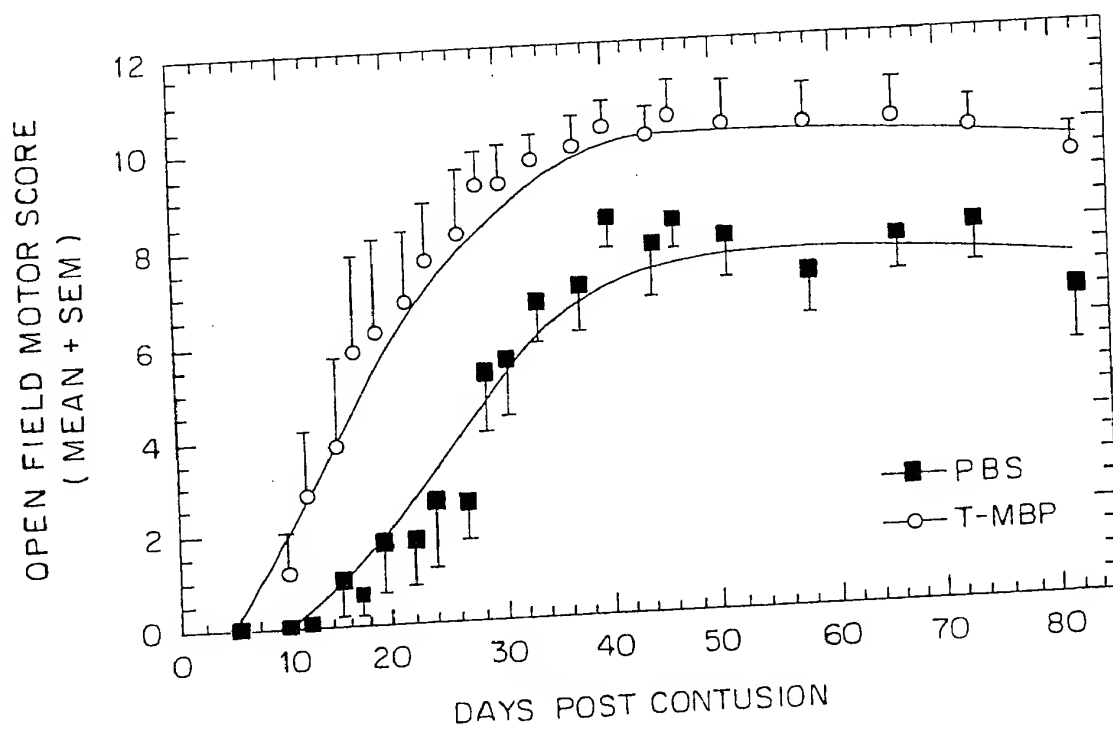
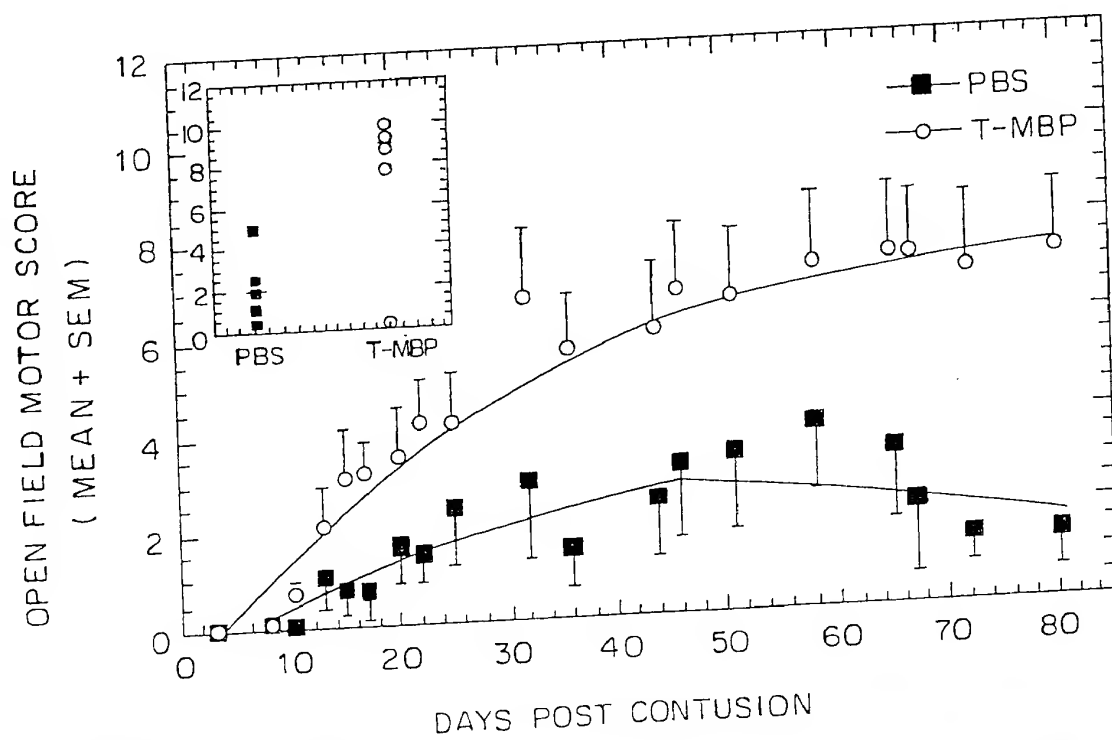
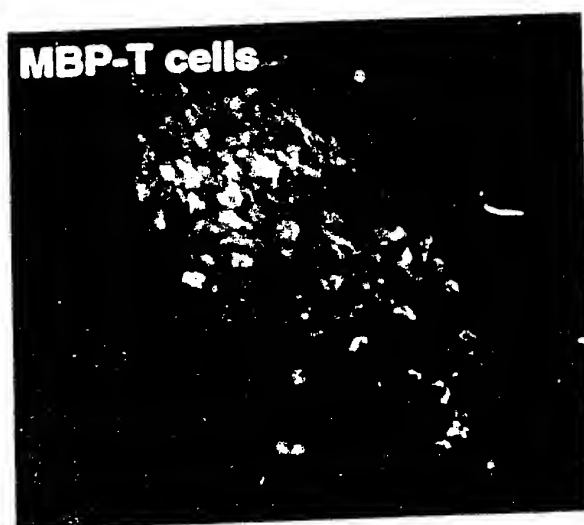


FIG. 7B





*FIG. 8A*



*FIG. 8B*

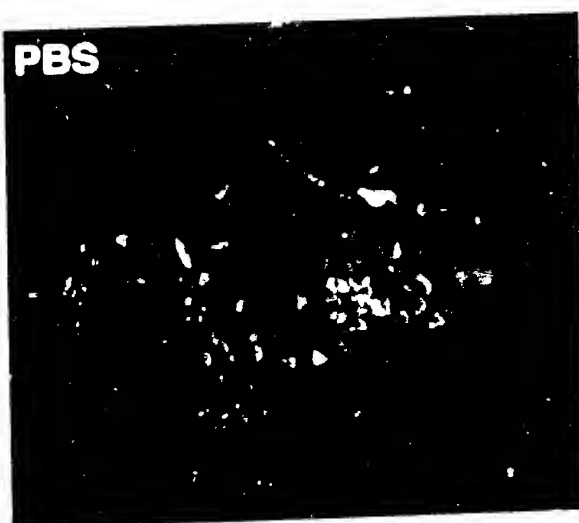


FIG. 8C

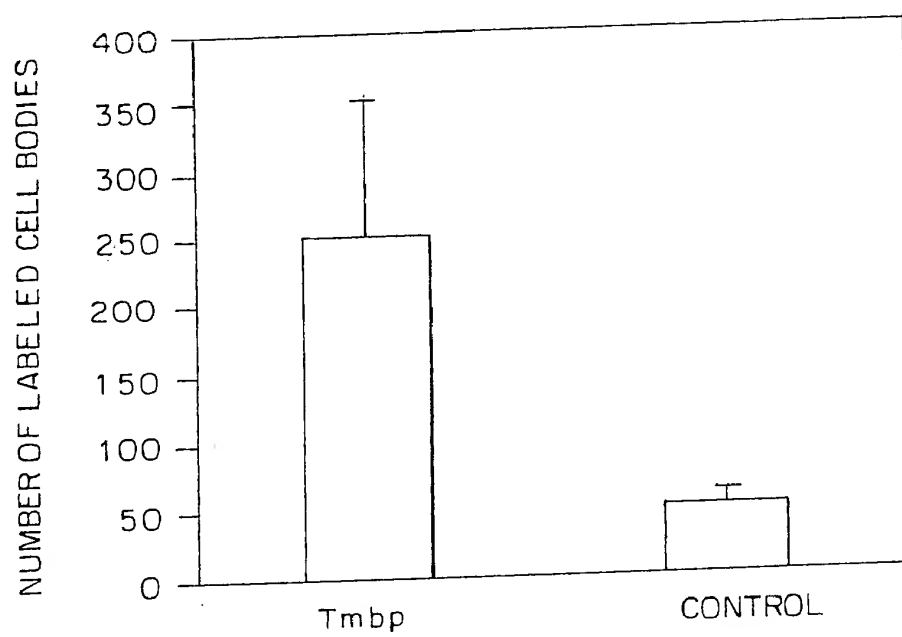


FIG. 9

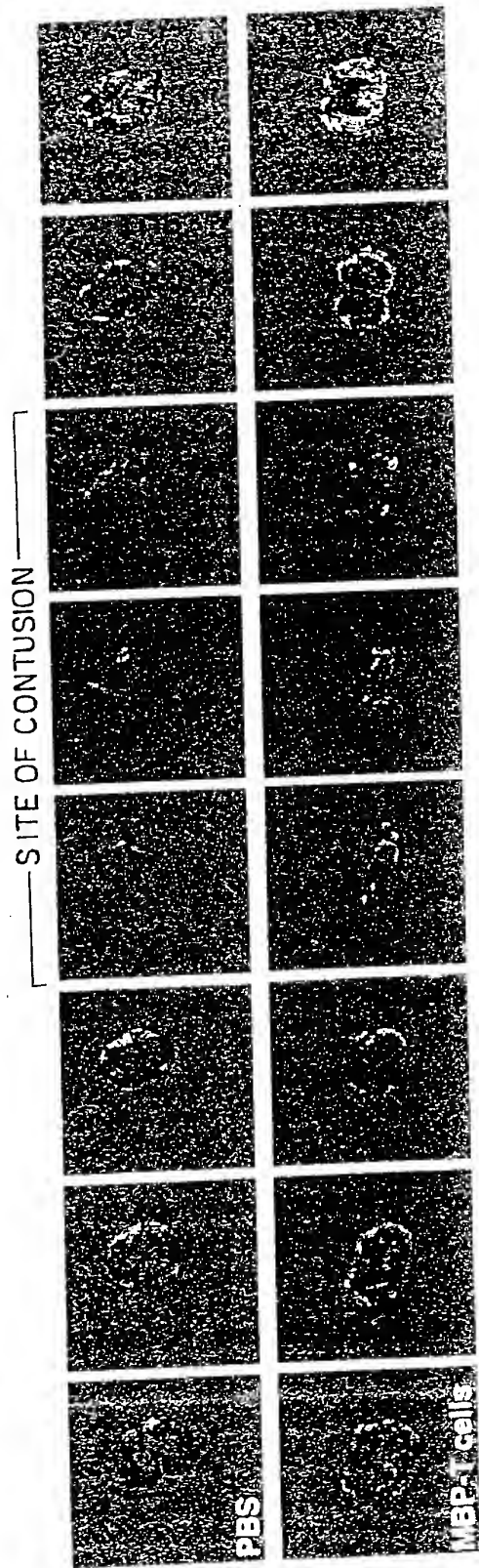


FIG. 10

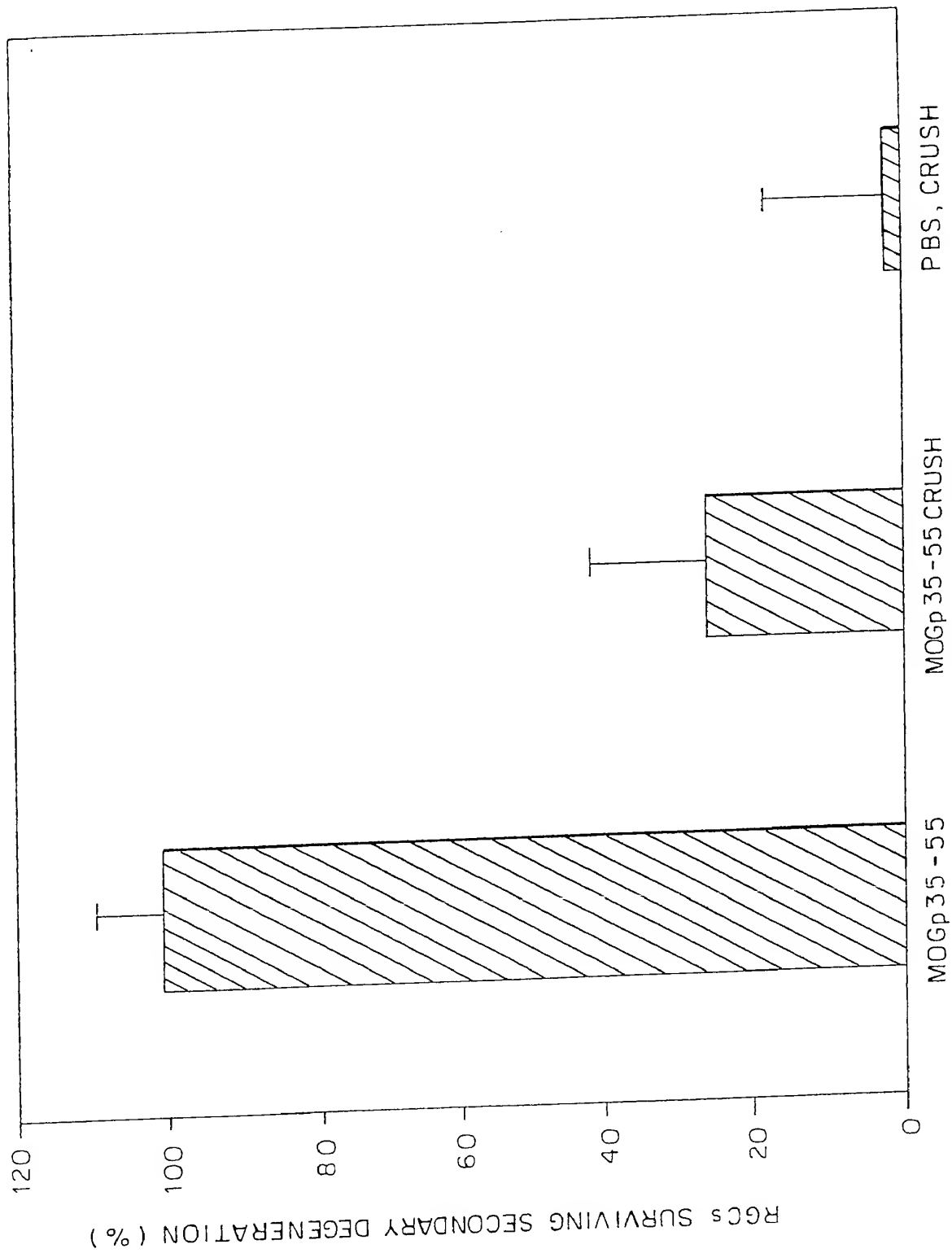


FIG. 11

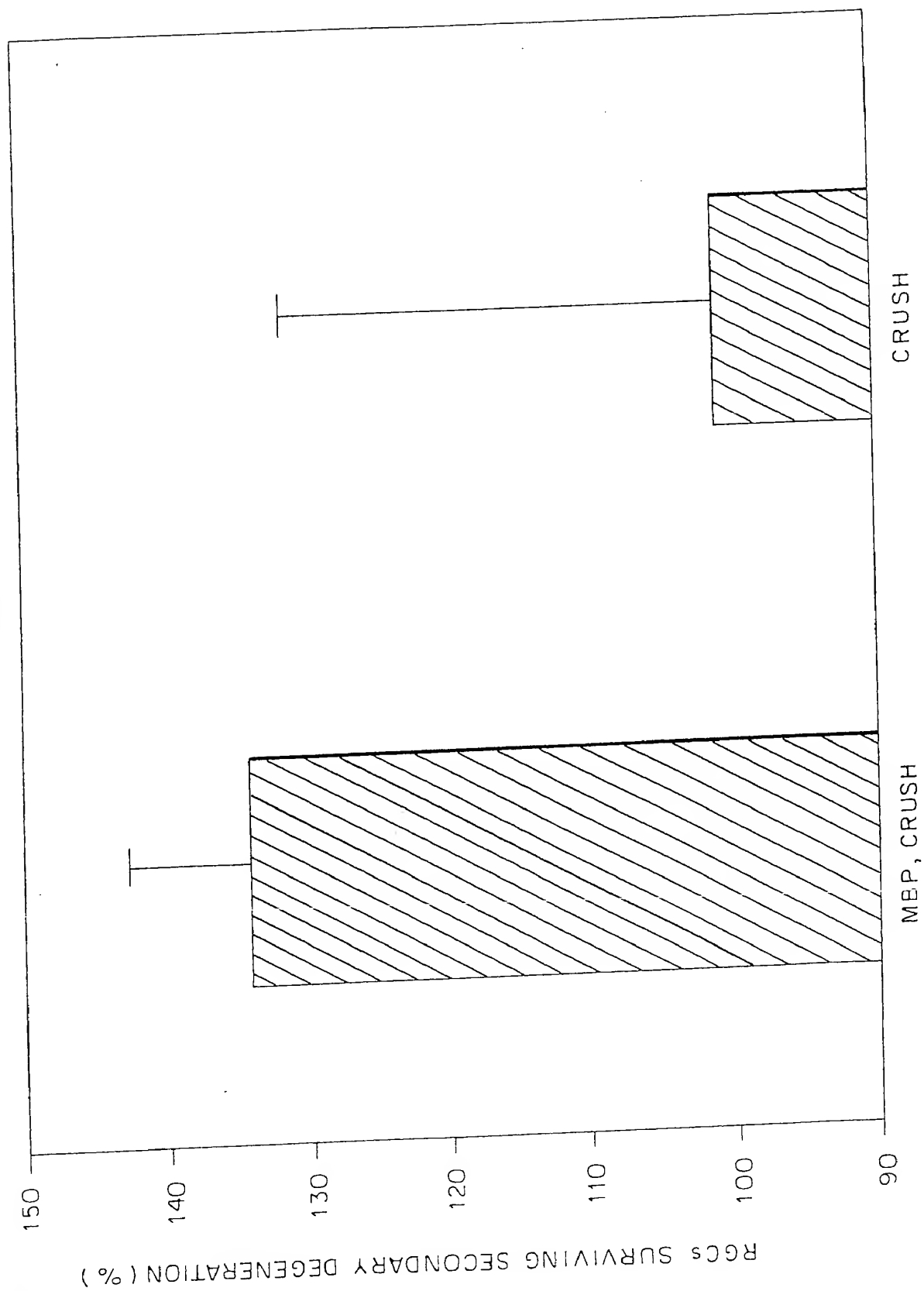


FIG. 12A

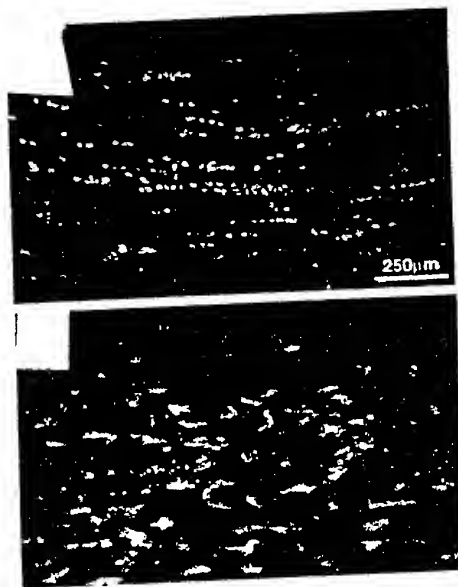


FIG. 12B



FIG. 12C

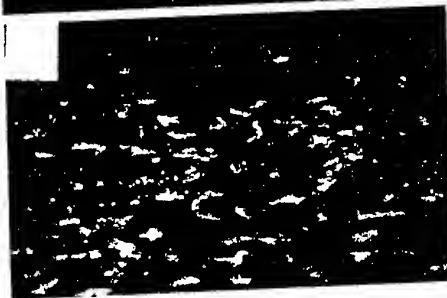


FIG. 12D

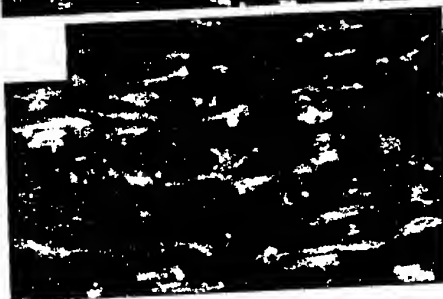


FIG. 12E

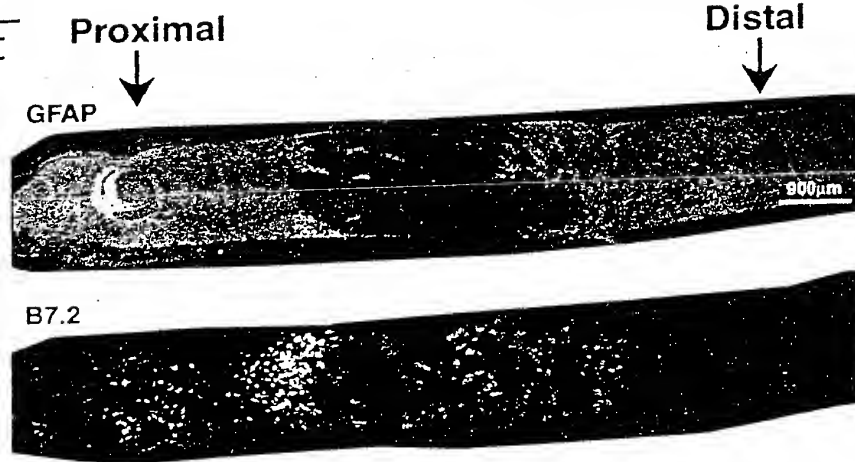


FIG. 12F

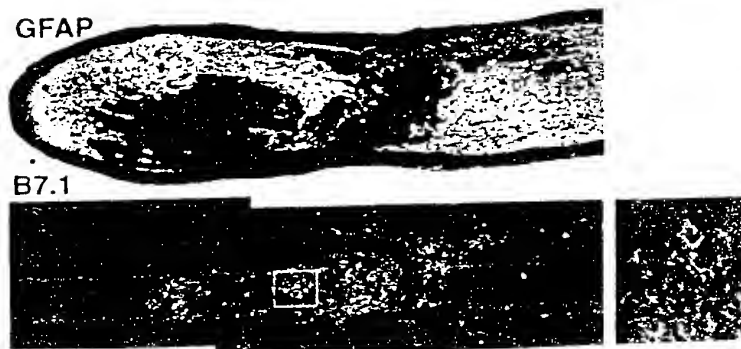


FIG. 13A

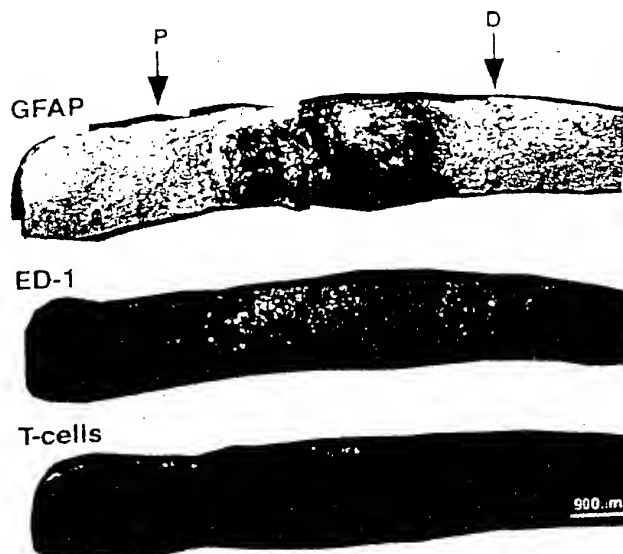


FIG. 13B

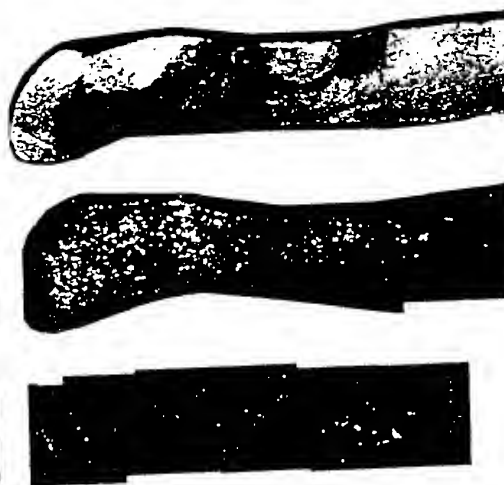


FIG. 13C

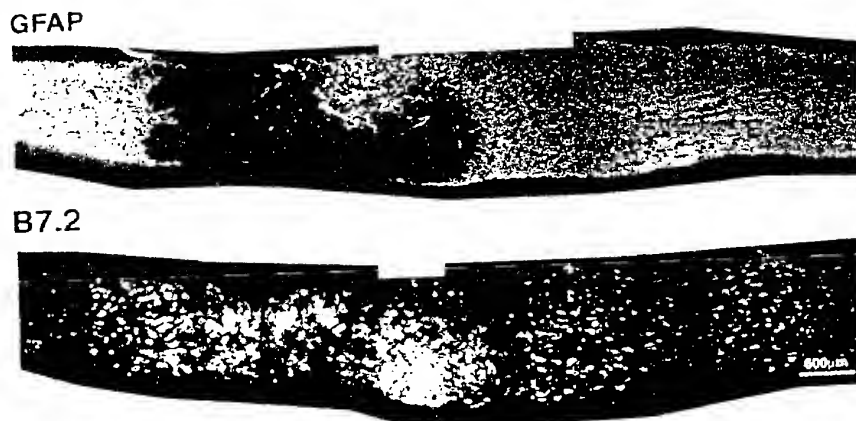
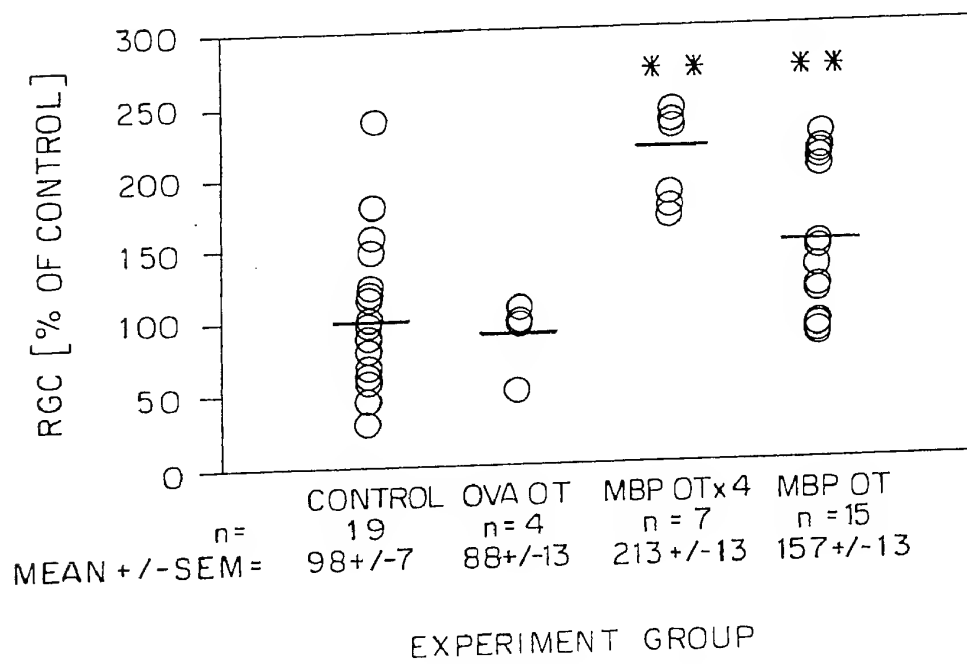


FIG. 14





# FIG. 15

1	ccaagaagat	cccacagcag	cttccgaagg	cctggatgtg	atggcatcac	agaagagacc
61	ctcacagcga	cacggatcca	agtacttggc	cacagcaagt	accatggacc	atgcccggca
121	tggcttctc	ccaaggcaca	gagacacggg	catccttgac	tccatcgggc	gcttctttag
181	cgggtgacagg	ggtgcgcccc	agcggggctc	tggcaaggac	tcacacacaa	gaactacca
241	ctacgggtcc	ctgccccaga	agtcgcagag	gacccaagat	gaaaaccag	tagtccactt
301	cttcaagaac	attgtgacac	ctcgtacacc	ccctccatcc	caaggaaagg	ggagaggcct
361	gtccctcagc	agatttagct	ggggaggaag	agacagccgc	tctggatctc	ccatggcaag
421	acgctgagag	cctccctgct	cagccttccc	gaatcctgcc	ctcggcttct	taatataact
481	gccttaaacy	tttaattcta	cttgcaccaa	atagctagtt	agagcagacc	ctctcttaat
541	cccgtggggc	tgtgaacgcg	gcgggccagc	ccacggcacc	ctgactggct	aaaactgttt
601	gtcccttttt	at				

# FIG. 16

1	gaaaacagtg	cagccacctc	cgagagcctg	gatgtgatgg	cgtcacagaa	gagacccctcc
61	cagaggcacg	gatccaagta	cctggccaca	gcaagtacca	tggaccatgc	caggcatggc
121	ttcttcccaa	ggcacagaga	cacgggcatc	cttgactcca	tggggcgctt	ctttggcggt
181	gacaggggtg	cgccaaagcg	gggctctggc	aaggactcac	accacccggc	aagaactgct
241	cactatggct	ccctgcccc	gaagtcacac	ggccggaccc	aagatgaaaa	ccccgtagtc
301	cacttcttca	agaacattgt	gacgctcgc	acaccacccc	cgtcgcaggg	aaaggggaga
361	ggactgtccc	tgagcagatt	tagctggggg	gccgaaggcc	agagaccagg	atttggctac
421	ggaggcagag	cgtccgacta	taaatcggtc	cacaagggat	tcaaggagat	cgatgcccag
481	ggcacgcttt	ccaaaatttt	taagctggga	ggaagagata	gtcgtctctg	atcaccatg
541	gctagacgct	gaaaacccac	ctgggtccgg	aatcctgtcc	tcagcttctt	aatataactg
601	ccttaaaaact	ttaatcccac	ttgcccctgt	tacctaatta	gagcagatga	ccccccctcc
661	aatgcctgcy	gagttgtgca	cgtagtaggg	tcaggccacg	gcagcctacc	ggcaatttcc
721	ggccaacagt	taaatgagaa	catgaaaaca	gaaaacggtt	aaaactgtcc	ctttctgtgt
781	gaagatcacg	ttcttcccc	cgcaatgtgc	ccccagacgc	acgtgggtct	tcagggggcc
841	aggtgcacag	acgtccctcc	acgttcaccc	ctccaccctt	ggactttctt	ttcgccgtgg
901	ctcggcaccc	ttgcgctttt	gctgggtcact	gccatggagg	cacacagctg	cagagacaga
961	gaggacgtgg	gcggcagaga	ggactgttga	catccaagct	tcctttgttt	tttttctctg
1021	tccttctctc	acctcctaaa	gtagacttca	tttttccctaa	caggattaga	cagtcaagga
1081	gtggcttact	acatgtggga	gcttttttgt	atgtgacatg	cgggctgggc	agctgttaga
1141	gtccaacgtg	gggcagcaca	gagagggggc	cacctcccca	ggcgtgggt	gcccacacac
1201	cccaattagc	tgaattcgcy	tgtggcagag	ggaggaaaag	gaggcaaacg	tgggctgggc
1261	aatggcctca	cataggaaac	agggctctcc	tggagatttg	gtgatggaga	tgtcaagcag
1321	gtggcctctg	gacgtcaccg	ttgcccctga	tgggtggccc	agagcagcct	ctatgaacaa
1381	cctcgctttcc	aaaccacagc	ccacagccgg	agagtccagg	aagacttgcy	cactcagagc
1441	agaagggtag	gagtcctcta	gacagcctcg	cagccgcgcc	agtcgcccct	agacactggc
1501	tgtgaccggg	cgtgctggca	gcggcagtg	acagtggcca	gcactaaccc	tccttgagaa
1561	gataaccggc	tcattcactt	cctcccagaa	gacgcgtggt	agcgagtagg	cacaggcgtg
1621	cacctgctcc	cgaattactc	accgagacac	acgggctgag	cagacggccc	ctgtgatgga
1681	gacaaagagc	tcttctgacc	atatacttct	taacacccgc	tggcatctcc	tttcgcgctt
1741	ccctccctaa	cctactgacc	caccttttga	tttttagcgca	cctgtgattg	ataggccttc
1801	caaagagtcc	cacgctggca	tcaccctccc	cgaggacgga	gatgaggagt	agtcagcgtg
1861	atgccaaaac	gcgtcttctt	aatccaattc	taattctgaa	tgtttcgtgt	gggcttaata
1921	ccatgtctat	taatataatg	cctcgatgat	gagagagtta	caaagaacaa	aactccagac
1981	acaaacctcc	aaatttttca	gcagaagcac	tctgcgtcgc	tgagctgagg	tgggctctac
2041	gatccatacg	tggccgcacc	cacacagcac	gtgctgtgac	gatggctgaa	cggaaagtgt
2101	acactgttcc	tgaatattga	aataaaacaa	taaactttt		

# FIG. 17A

1	taatatctag	ggktttgact	ctgacccgtg	ttggggctct	cacttcatgg	cttctcagc
61	ttgtgctgca	tatcccacac	caattagacc	caaggatcag	ttggaagttt	ccaggacatc
121	ttcattttat	ttccaccctc	aatccacatt	tccagatgtc	tctgcagcaa	agcgaattc
181	caggcaagcc	ttagggaaaa	aaggaaaaac	aaagaaaatg	aaacaattgg	cagtgaagg
241	cagaaagaga	agatggagcc	cttagagaag	ggagtatccc	tgagtaggtg	gggaaaaggg
301	gaggagaagg	ggaggaggag	aggaggagga	aagcaggcct	gtccctttta	gggggttggc
361	tgtcaatcag	aaagcccttt	tcattgcagg	agaagaggac	aaagatactc	agagagaaaa
421	agtaaaagac	cgaagaagga	ggctggagag	accaggatcc	ttccagctga	acaaagtcat
481	ccacaaagca	gactagccag	ccggctacaa	ttggagtcag	agtcccaaag	acatgggtaa
541	gtttcaaaaa	ctttagcatt	gaagattcaa	gaggacacag	g	

# FIG. 17B

1	ctgctttcag	agcctgtgac	ttcttgtgtg	cctctcctgt	ttctcagcaa	catggcatag
61	ggcctgggat	accaggctctg	gggatctcag	ggactcttag	cactttaaga	cacatgtgtt
121	cccaggccct	ggtgtgttcc	tctagtcca	gaaagatgtt	tcatgctttg	ctgactttgt
181	ataaagtctg	ttttagctg	ttttgacaga	atctcagcgt	ataactgagg	gtggggacat
241	tagccaagct	gcattatagg	aggacaaaac	tgccatacaa	agtgtccaaa	atcattaagc
301	ctgcattttt	attattggga	gtaatatcaa	acctcctatt	ttccaatttt	cattttctgt
361	cctgtgctag	ctccatcctg	tttggactgc	tcctcccata	tgtaaaactaa	gaagaatcaa
421	gcattctttg	caacaaatac	acacgatgct	caaaaatgct	caggagcatc	caatttccaa
481	agtttccctc	acctggaatg	ctcttcatgc	taaaatcctg	tctgacaata	ccagcatctc
541	tggcctgcac	tcctcccttc	ctggaactcc	aagtgcattt	acctctgttt	accacttact
601	tggctgcctg	aattgttagt	tgaaaatatt	aggtctactt	agctaattct	tcctcaggaa
661	attaaagact	cccataatggc	agagtctgtg	tcttttctct	cttcataatcc	cgtataacac
721	ccagcataat	gctgggcata	tagtgagtat	tcataaata	gttgatgaat	gactaaaata
781	agcaagcaaa	caaacagact	agaacaataa	gaaagaaggg	actggatttc	ataatctctc
841	tggcttgcta	tttgaattgc	tgaattatta	ttatttatta	aatatttttt	aaattctggc
901	aataaaaagg	aaggatttat	tttctttctt	tctttttttt	tttcttgaga	cagagtctcg
961	ctcttactgc	ccaggctgga	gtacaatggc	gcaatcttgg	ctcacggcaa	cctccgcctc
1021	ctcctggggt	taacagattc	tcctgtctca	gcctcctgag	tagctgggat	tacaggcata
1081	cgcccatgcc	cggctaattt	ttgtattttt	agtagagacg	gggttttgcc	atgttggcca
1141	ggctggtctt	gaactcctga	cctcatgtga	tcacactgcc	tcagcctccc	aaagtgtctg
1201	gattacaggg	atgcgccacc	gtgcccggcc	aaagatttat	tttcaagaat	gaaacaaagt
1261	aaggattctg	ggtcaatctc	acatgctgaa	agccaaaacc	tctagccgct	cctgcttttt
1321	gacttcggag	tgcccactat	ctccgagcct	gtgagcacag	ggcctggcag	aggggtttga
1381	gtggcatgag	ctacctactg	gatgtgcctg	actgtttccc	cttcttcttc	cccaggcttg
1441	ttagagtgtc	gtgcaagatg	tctggtaggg	gccccctttg	cttccctggt	ggccactgga
1501	ttgtgtttct	ttgggggtggc	actgttctgt	ggctgtggac	atgaagccct	cactggcaca
1561	gaaaagctaa	ttgagacctc	tttctccaaa	aactaccaag	actatgagta	tctcatcaat
1621	gtgtaagtac	ctgccctccc	acacagaccc	atcttttttt	tcctctcttc	cactcctggag
1681	atagagaact	cttcagtacc	ttagtaacta	gcaggggact	gggggtggagc	cagaccggat
1741	tcccagagtct	tcctctgtg	ca			

# FIG. 17C

1	ctagaaaatc	cctagccttg	ttaaggtgct	cgctctgggtg	tatacctcac	ttatgtcggg
61	aaagaagcca	ggtcttcaat	taataagatt	ccctgggtctc	gtttgtctac	ctgttaaatgc
121	aggatccatg	ccttccagta	tgtcatctat	ggaactgcct	ctttcttctt	cctttatggg
181	gccctcctgc	tggctgaggg	cttctacacc	accggcgag	tcaggcagat	ctttggcgac
241	tacaagacca	ccatctgcgg	caagggcctg	agcgcaacgg	taacaggggg	ccagaagggg
301	aggggttcca	gaggccaaca	tcaagctcat	tctttggagc	gggtgtgtca	ttgtttggga
361	aaatggctag	gacatccoga	caaggtgac	atcctcagga	ttttgtggca	ataacaaggg
421	gtgggggaaa	attggggcgcg	agtctgtggc	ctcgtcccca	cccaaggctg	ggctctctct
481	aggggcctgg	catttgagtg	aggaagcgat	ggctgcagcc	gaacgagaag	gtcaggaaga
541	acgtgggtgcc	cagctggcct	agcctcacct	ttcaaagggt	ccctaagcaa	atttcttctc
601	aaaacagaaa	gcattgagttt	tgtgggatgc	ttgttacaat	cagaccattt	ctaagccatc
661	tgttggtatc	cctttgttcc	cttctagta	ggtaccacaa	gagtggatct	aactggacaa
721	gagtcataaaa	tgctgctcat	gtgattgaga	cttgggcacc	tgagctraga	gggaggatgg
781	ataataaaaa	ttaaataata	actccaaggt	aaatttacia	tgttctgg	

# FIG. 17D

1	gacccctctc	attcttcccc	tacccattcc	ccccaccctc	cggtataactg	gggccagtta
61	tctagtagat	actgccaatt	acccttggca	gaggtgccct	gctcactaat	tttatttggg
121	ggagmgccct	ggaacctggg	tttaatgtct	ggcacacgcc	acttccagga	tctcccagtt
181	tgtgtttcta	catctgcagg	ctgatgctga	tttctaacca	acccatgtca	atcatttttag
241	tttgtgggca	tcacctatgc	cctgaccggt	gtgtggctcc	tggtgtttgc	ctgctctgct
301	gtgcctgtgt	acatttactt	caacacctgg	accacctgcc	agtctattgc	cttccccagc
361	aagacctctg	ccagtatagg	cagtctctgt	gctgatgcca	gaatgtatgg	tgagttaggg
421	tacgggtgct	ttggctctcc	taccactat	ggaagcacta	tatatttggg	tattttctta
481	gtgtaaggag	ggtggtgatt	atgagaaaaa	tataagatga	tgaatgattg	ggtcttagtt
541	tattaatcct	tccctactga	aaccagagag	gtttcttccc	ccggaaggga	acttgggaagt
601	ggtgggagtt	ttcttggcca	ttcacattgg	cctactctag	ttgactgctg	ttcacaaccc
661	caaagcagca	catttcaata	acaaacacaa	ggttdsacca	ctgttcaata	ccaccttctc
721	ttttttgtaa	acctgtagaa	aagaggatcc	taattgttgg	tagmatccaa	mtttacagcc
781	aggataatta	gagatggaag	aagggtctctg	ggggaaagtc	tccatgtggc	cccgtaaactc
841	cataaagctt	accctgcttg	ctttttgtgt	cttacttagg	tgttctccca	tggaatgctt
901	tccctggcaa	ggtttgtggc	tccaaccttc	tgtccatctg	caaaacagct	gaggtgagtg
961	ggttattttg	gttattttac	aaggagtag	ctaataccat	acaaattaca	cccattggcct
1021	tcaattttta	ggactgaaag	tttccctttg	ctggattttg	aattagccga	ttgccttcta
1081	caacatgttg	gctaagtgtg	cctgagccaa	tgagcataga	aggtaaaaca	cctcttttct

# FIG. 17E

1	aattagcaca	cagaaaggat	atccaacaca	tacaaagctg	tnntcatgga	ctacactgga
61	gcatattact	gctgttgcaa	gaaacatttc	ttcttctctc	tttcattttc	ctgcagttcc
121	aaatgacctt	ccacctgttt	attgctgcat	ttgtgggggc	tgcagctaca	ctgggttccc
181	tggtagagtg	actttgaatg	atcttggcaa	gtaaataggc	ctgagatagt	tgtgggtaca
241	gctattctga	aaggcaagaa	ggtagactgc	ttccatcctt	gaaatgctgg	agggga

# FIG. 17F

1	aattctatat	actatcacta	tggtctccact	ttggatactc	tccagtggat	ttagttactc
61	atatggaaat	acctggggagg	acctoctaac	attattagaa	ttgttatgat	tataatacaa
121	ygctatgtcc	caggtcttgc	tgatagtget	acagtgcctt	gtgaatgtag	tgtgctcatt
181	gtgcagatta	aaaacctaag	gcactgaagg	gtgaagtgat	ttatctgaag	ttattttata
241	aagcagtgat	cagacaasct	gagctcacag	aactccctgg	ccctactgc	tgaggtttcc
301	atacagagtc	aagtaatttc	tcaccttgta	aaacgaattg	attcattaac	caggggagag
361	ctctactgca	tgatgtggct	gtgtgtctac	agcaagcacc	ctatgactct	aagtcactcg
421	gacatatattga	tgtggcaaag	cccaaatatt	gttcacttcc	ctgaggaaaa	ctcagtgcga
481	gatcaaacag	aggtgtggaa	taaatcttta	tgatttgatt	ctctgggcct	gggccaatgag
541	acccatgatg	cctcagagac	atcggacttc	cagtcaagtg	tatatggaga	aagccaagcc
601	tgggatgtac	tgctttttgc	agagcatggg	tttttccctt	athtagttat	gatttttattt
661	ctacccttcc	tcattcccaa	agggatttga	ggagggagtg	ctttcttttc	tactctcatt
721	cacattctct	cttctgttcc	ctacagctca	ccttcacgat	tgctgccact	tacaactttg
781	cogtccctaa	actcatgggc	cgaggcacca	agttctgatc	ccccgtagaa	atcccccttt
841	ctctaataagc	gaggtctctaa	ccacacagcc	tacaatgctg	cgtctcccat	cttaactctt
901	tgccctttgcc	accaaactggc	cctctttctta	cttgatgagt	gtaacaagaa	aggagagctc
961	tgcagtgatt	aaggtctctc	tttggactct	ccctcttat	gtacctctt	gtactatttt
1021	gcttcatagc	tggttccctgc	tagaaatggg	aaatgcctaa	taatatgact	toccaactgc
1081	aagtcacaaa	ggaatggagg	ctctaattga	atthttcaagc	atctcctgag	gatcagaaag
1141	taatttcttc	tcaaagggta	cttccactga	tggaaacaaa	gtggaaggaa	agatgctcag
1201	gtacagagaa	ggaatgtctt	tggtcctctt	gccatctata	ggggccaaat	atattctctt
1261	tgggtgtacaa	aatggaattc	attctgcgtc	tctctattac	actgaagata	gaagaaaaaa
1321	gaatgtcaga	aaaacaataa	gagcgtttgc	ccaaatctgc	ctattgcagc	tgggagaagg
1381	gggtcaaagc	aaggatcttt	cacccacaga	aagagagcac	tgaccccgat	ggcgatggac
1441	tactgaagcc	ctaactcagc	caaccttact	tacagcataa	gggagcgtag	aatctgtgta
1501	gacgaagggg	gcactctggc	ttactcctcg	ttagggaaga	gaaacagggt	cttgtcagca
1561	tcttctcact	cccttctcct	tgataacagc	taccatgaca	accctgtggg	ttccaaggag
1621	ctgagaatag	aaggaaaacta	gcttacatga	gaacagactg	gcctgaggag	cagcagttgc
1681	tgggtggctaa	tgggtgtaacc	tgagatggcc	ctctgggtaga	cacaggatag	ataactcttt
1741	ggatagcatg	tctttttttc	tggttaattag	ttgtgtactc	tggtcctctgt	catactctca
1801	caatgggtgct	catttcatgg	ggtattatcc	attcagtcac	cgtaggtgat	ttgaaggctc
1861	tgatttggttt	tagaatgatg	cacatttcat	gtattccagt	ttgtttatta	cttatttggg
1921	tgtgcatcag	aaatgtctgg	agaataattc	tttgattatg	actgtttttt	aaactaggaa
1981	aattggacat	taagcatcac	aaatgatatt	aaaaattggc	tagttgaatc	tattgggatt
2041	ttctacaagt	attctgcctt	tgcagaaaca	gatttgggtga	atttgaatct	caatttgagt
2101	aatctgatcg	ttctttctag	ctaattggaaa	atgatttttac	ttagcaatgt	tatcttgggtg
2161	tggttaagagt	taggttttaac	ataaagggtta	ttttctcctg	atatagatca	cataacagaa
2221	tgcaccagtc	atcagctatt	cagtttggtaa	gcttccagtc	atcagctatt	cagtttggtaa
2281	gcttcccagg	aaaaaggaca	ggcagaaaga	gtttgagacc	tgaatagctc	ccagatttca
2341	gtctttttaat	gtttttgtta	actttgggtt	aaaaaaaaaa	aaagtctgat	tggtttttaat
2401	tgaaggaaag	atttgtacta	cagttctttt	gttgtaaaga	gttggtgtgt	tcttttcccc
2461	caaagtgggt	tcagcaatat	ttaaggagat	gtaagagcct	tacaaaaaga	cacttgatac
2521	ttgtttttcaa	accagtatac	aagataagct	tccaggctgc	atagaaggag	gagagggaaa
2581	atgtttttgta	agaaaccaat	caagataaag	gacagtgaag	taatccgtac	cttgtgtttt
2641	gtttttgattt	aataacataa	caaataacca	acccttccct	gaaaacctca	catgcataca
2701	tacacatata	tacacacaca	aagagagtta	atcaactgaa	agtgttccct	catttctgat
2761	atagaattgc	aatttttaaca	cacataaagg	ataaactttt	agaaacttat	cttacaaagt
2821	gtatttttata	aaattaaaga	aaataaaaatt	aagaatgttc	tcaatcaaac	atcgtgtcct
2881	ttgagtgaat	tgttctattt	gacttcacaa	tagaaactta	ataatcgtac	cttctcaaga

# FIG. 18A

1	atggaaatgt	tctgtatttg	tgttgctctga	tgagataacc	actaactgta	gtgctattga
61	gcatttgaaa	catggctagt	gtaatcaatg	aaccaaattt	tttaattttat	tttaattgtaa
121	tttaattttaa	gtggccacat	gcagggagtg	actgctgcat	tggaacagcac	ggctctaaat
181	tgagcctttt	ttccttattt	ggtgagggcat	acttgcctta	agattgggaa	gtctattttt
241	ggaacctgct	accaatgctg	gtctcacact	tgcaattctc	agctgagcca	agaggtgaga
301	gaaaggctcat	tttccattcc	aagatctcac	tctccccctgt	gacactgagg	aaactggcaa
361	gtgatgtgaa	ggctggagag	cgtgtcctgt	atgctggctc	tgtccccctt	gcctgtgttg
421	actgacatag	ttagttgctg	cccttgctgg	tctccccctc	tccaaccttg	cctctctgag
481	cacacctgac	attcatctca	tgacttcctc	aaaaacattc	tttgggaaca	agaaactaac
541	aaatcccaag	tgacctatca	catatacaaa	catacagggc	agagtttgga	ttcgcggtag
601	aagaaagggg	ggttagacat	taagaagaat	ggtctgggtga	tgacagtgtg	gagataatag
661	aaacaggaaa	aagaaatcta	agttttcttt	cttttttttaa	gaaccaataa	taattttctc
721	cttttgacta	gtcagtaggg	ctgggggtgga	ttggaggaag	cttacatatt	ccatgaacaa
781	gcctcttctc	aaggctcctgt	aagtgtacct	gccccactga	ttagccccct	gaagaccctt
841	caaagggttg	atctccagga	gggagtgggg	gaggaaagcc	ctgtaccagg	cagcctctgc
901	tccattgctc	tgggggggtg	gggaagacaa	accctgggtca	tccccctcagt	ctgtagccct
961	tttgtgtgag	tgccctggcaa	gggtgacgtg	gggctgtttc	tgcgggcaca	gctgcagcaa
1021	ttaccggagt	ggaggcaggg	cccaggcagc	actgccctcc	aagatcttcc	cttgggcttt
1081	tcagcagtaa	ggggacatgc	accccaaggg	cctccacttg	gcctgacctt	gctgcggggg
1141	ctctctgtcc	ccaggaacag	tagagatggc	aagcttatcg	agacctctc	tgcccagctg
1201	cctctgctcc	ttcctcctcc	tctcctcctc	ccaagtgtct	tccagctatg	caggtaagac
1261	atgttttttt	tcttgccttg	gggagaccct	gaaaacagaa	aggctagttt	cctggggggt
1321	agctccttca	aacatcctca	agttgggtata	ttatctttct	aaaacataga	cctactgaca
1381	tgctcctctt	cctcagaaac	cttccgtggg	tggttctttac	agccttcaag	atggagtcca
1441	gactcttttt	tttttttggt	acagagtctc	cctctgttgc	tcaggctgga	gtgcagtggc
1501	atgatctcgg	ctcactgcaa	cctcagcctc	cctgggttcaa	gcgattctcc	tgacttggcc
1561	tcccaagtag	cggagactac	aggcgccctg	caccacaccc	agctaaattt	gttcttttct
1621	ttcttttttt	tttttttggt	gatttttagga	cagacggggg	ttcacatgtt	ggccaggatg
1681	gtctcgatct	cttgacctgc	tgatccggcc	gcctcagctt	cccaaagtac	tgggattatg
1741	ggcgtgagcc	actgcactag	gcctaatttt	tttattttta	gtagagatgg	ggtttcacca
1801	tgttggccag	gctgggtctg	aaaccttgac	ctcaagtggg	ctgcccctct	cagcctccca
1861	aagttctgag	attacaggca	tgagccattg	cgtctgacct	agactcctta	atgtgactaa
1921	ctccaggctt	tcttggact	acttcttact	tgtctttcca	gctttgtctt	ttcacctctc
1981	caattgagat	aaaataataa	caacctcttg	gagttctcat	caggattaca	tgaaatgaga
2041	tatgtaacat	gcttagcagt	gcctgtccat	agtaaatctc	aataaatgtt	tgtggaatta
2101	taatatcttg	tcatgtttga	gactttgtct	tgcataatca	ggcaccagta	ggtttttata
2161	aaggaacccg	tctgtcacgt	gcagaggaga	aataaacaga	aagtttccca	tcctcaggga
2221	gccacctgac	tgacagaggc	acagtgcctc	cactctccag	gtctagggga	gaaagcagcc
2281	ttattttctta	gtagctcaga	atctgacttg	agaaacacat	ccacatagaa	aaaaacaagg
2341	aacttttttcg	ggtcagggtc	cgggacccac	agtgaggtgg	aagatacagg	ggaaggaaga
2401	gggaaataga	gccatcccca	gggtggaaga	tctcagaaga	gaatttgga	aacaaggat
2461	gaacaaggac	tgaatagtga	gaagtgatgg	agagacagct	aaagttagatg	gagtgtcaaa
2521	accaaaacct	ctaagggtag	aataggcagc	aattttggcca	agtcctaaca	gggaggccca
2581	taggaggatt	caacctcaag	atgctgtgcc	acattccaag	agggaaacct	aaggctgggc
2641	tgaagagtca	gagatggcta	cagctggcaa	aaagatgggc	agatgctgag	aggagatgat
2701	tgctaaaatg	ttctgtccag	gacattcaca	gtatctctat	aaccagagtc	ttttttgtcg
2761	ttgttgtttc	caagaaggaa	acttgaggcc	gggtgtgggtg	gtttatgcc	ataatcccag
2821	cgcttttgggg	ccaaggcagg	cggatcacct	gaggtcagga	gttcgagacc	agcctggcca
2881	acagtgtgaa	acctcatctt	tactaaaaat	acaaaaatta	gctggatgcg	gcggtagggtg
2941	cctgtaatgc	cagctactcg	ggaggctgag	gcaggagaat	cacttgaacc	tgggaggcgg
3001	aggttgcagg	gaggcggagg	ttgcagtggg	ccaagattgc	accactgcac	tccagcctgg

# FIG. 18B

3061	gcgacagaga	gtaagactgt	ctcaaaaaat	aatgaataa	ataaaaagga	agaagaagaa
3121	gaagaacaat	tgcaatccto	cctggctcta	gaatgtcatt	taaaagtcga	gtgtcttctt
3181	ccttccctgt	tttgaagcag	cccttctcat	gacaggcttg	cttgccaagg	ttccctctga
3241	ccttaaatct	cttccttttg	gtgtcttgga	cagggcagtt	cagagtata	ggaccaagac
3301	accctatccg	ggctctggtc	ggggatgaag	tggaattgcc	atgtcgata	tctcctggga
3361	agaacgctac	aggcatggag	gtgggggtggt	accgcccccc	cttctctagg	gtggttcatc
3421	tctacagaaa	tggaaggac	caagatggag	accaggcacc	tgaatatcgg	ggccggacag
3481	agctgctgaa	agatgctatt	ggtgagggaa	aggtgactct	caggatccgg	aatgtaaggt
3541	tctcagatga	aggaggtttc	acctgcttct	tccgagatca	ttcttaccac	gaggaggcag
3601	caatggaatt	gaaagtagaa	ggtgagtagt	gccatataat	attaggtatt	aactgttggg
3661	tgccaagaa	caattattct	ctcaactgag	atgagatccc	tcaacccaaa	catctcagtc
3721	ctgggaatga	tttccataaa	aatgtacaca	aaataaaaca	gaaactcatg	cttagggatg
3781	tctgttgcat	cattattcag	agtagcaagg	taattgggat	caaaatcaat	gcctttgagt
3841	aggtaagtga	cagaatgaac	aatggtagcc	atactgtgaa	tattatgcag	ggattaaaaa
3901	gattatttta	gcactaggcc	agatggtttg	gggggctcct	ctaaggtatt	attgagtgat
3961	aagagcaagc	tgctgtagga	tacaaaaaca	aaaacaaaac	cctagggcat	ggtggtttgc
4021	ctcgagccta	ctcaggaggc	tgagacggga	ggctggcttg	agcccagggg	tttgcagtta
4081	cagtgcagcta	tgattgcacc	actgcactcc	aaccggggtg	acagagcaaa	gaccttcacc
4141	cccactccct	accggtctct	aaaaaaaaca	aaaacaaaaa	caaaaaaacc	cttggggcca
4201	gcgcctggtg	tcacgcctgt	aatcccagca	ctgtgggagg	ccgaggtggg	cagatcacaa
4261	ggtcaggaga	tcgagaccat	cctggctaaa	acggtgaaac	cccgtctcta	ctaaaaatac
4321	aaaaaaaaaa	aaaaaattta	gccaggcatg	gtagcaggcg	cctgtagtcc	cagctactcg
4381	ggaggctgag	gcaggagaat	ggcgtgaacc	cggagagcga	ggttgccagt	agccaaaaatc
4441	cttcactgca	actccagcat	gggggacaca	gcgagactcc	gtctcaaaaa	aaaaaaaaaaa
4501	accctgtatt	tgtgagcgca	cacacacaca	cacacacaca	cacacctgtg	cttgggtccta
4561	gtgaataagc	aagtaaatca	aatgtctaaa	tataattata	gaaaggagat	gtcacctttt
4621	ggctgtacct	ccactatttc	attctgcaga	attgcagaat	ttcttttttt	tttcttttct
4681	ttcttttctt	tttttttttg	acacagagtc	tcgctctgta	accagggctg	gagtgcagt
4741	gcgcctcccg	cctcctgggt	tcaagtgatt	ctcctgcctc	agcctcccga	gtagctggga
4801	ttacagggtg	ccaccaccac	accagctaa	tttttgattt	tttagtagag	acagggtttc
4861	accaggttgt	caagggttgt	ctcaaactcc	tgacctcagg	tgatccactc	gcctcagact
4921	cccaaagtgc	tgggattaca	ggcatgagcc	atgggtgccc	gcctcagaat	ttcattttca
4981	acatgttttg	catgatgggt	gattttggag	aatatttttt	gctctatcgc	aggatgatta
5041	agatgtggac	aaggtgaagc	cgatggaggg	ggagctttga	aagttacttg	ctattttaatt
5101	gaggaactaa	actgctttga	gagcctgggg	gtcagatcct	ctgccttttc	ctcctcccca
5161	cctgcagtgc	aaacatcaga	caattgatca	ctattgtatc	ttggaggtgg	gagtgaccat
5221	tgcaagtgtg	ggaccagaag	atggcattgt	atgtggaaca	acaaagcact	atttctagag
5281	actgcctgca	gggatattga	aatagcttta	tgtgtctcag	aatgttcttc	atacagctgt
5341	ttttattggg	gaaattctac	ttgccgaaaa	gtttgatagt	gagacctctc	ccagtttgca
5401	gattttttct	cttctgtctc	aacaacttcc	tagctcagta	actgcctctc	ccaacaaact
5461	ccctcagttt	caccacacca	aaaaaggaag	acaagccggg	tgcggtgggt	cacacctata
5521	atcccaaaa	tttgggaggg	cgaggcgggt	ggatccacct	gaggtcggga	gttcgagact
5581	agcctgacca	acatggagaa	accctgtctc	tactaaaaac	acaaaattag	cctggcgtgg
5641	tggcgcattc	ctgtaatccc	agctgggagg	ctgaggcagg	agaatcgctt	gaaccccgga
5701	ggcggagggt	gcagtgcagc	aagatcgctt	cattacactc	cagtcctggg	aagaaaagt
5761	gaactccatc	tccaaaaaaa	aaaaaaaaaa	aacaaggaag	acaaaaagaa	aagcagctaa
5821	agactttgcc	tcaggggaga	aagttctctt	ttgggttgct	atccacattc	caacctctg
5881	ttcccaacct	ttcgtctgca	tgccaaagaa	actgttttac	aagtaataaa	gggacgcttt
5941	gtctaggctt	tggagccagg	aagttgagac	aaatttagga	atgagatgaa	gtaatgggat
6001	tattgcaagt	ctcaggtgta	actacctctg	ctctttctct	gaagagtttc	taatttctct
6061	tgtttactta	tttttttctt	gtcatttttt	ggatttttat	actagttgtc	tctaactctt

FIG. 18C

6121	tcttttaaatt	cttcattatg	aaacataaaa	acaaatgcca	ggcgcggcag	ctcacgcctg
6181	taatcccagc	actttgggag	gccgaagcgg	gcagatcacc	cgggtcagga	gttcgagacc
6241	agcctgatca	acatggagaa	accccgctct	tactaaaaaa	tacaaaatta	gctaggcgtg
6301	gtggcacatg	ccagtaatcc	cagctacttg	agagactgag	gcaggagaaat	cgcttgaacc
6361	gggaggcaga	ggttgcgggtg	agccaagatc	gcgccattgc	actccagcct	gggcaacaag
6421	agcaaaactc	tgtctcaaaa	aaaaaaaaacc	acatacaaac	cagagataat	attataatga
6481	gcctccaagt	gcctaccacc	ttgctgcagc	acttgtcaat	ccagggaaca	cccacctcac
6541	cggctcccca	ctcattacca	ccctccccta	ctcaattact	gaggtaaatc	ctaggcagca
6601	tgatcatttc	ttttttttct	ttttatttat	tttgagacag	gatctgtctc	tgtcaccag
6661	gctggagtgt	agtggcatat	ctctgctcac	tgcagcctct	gcctcccggtg	cagaagccat
6721	cctcccaact	cagcctacat	agtagctggg	accacaggca	cacaccacca	cacactgcta
6781	atgttttgta	ttttttgtag	agactgggtt	ttaccatggt	gatcaggctg	gtctcaaact
6841	cctagggtca	agcaatcctc	ccacctcggc	ctcccaaagt	gctagaatta	caggcgcgag
6901	ccactgcacc	cagcgaagaa	cacttttttaa	aaaataaata	ggccggggcg	ggtggctcac
6961	acctgtaatc	ccagtacttt	gggagcccaa	ggagggcgaa	tcattgaggtc	aagagattga
7021	gaccatccta	agtaacatgg	tgaaccccca	tttctactac	aaatacaaaa	acaaaattag
7081	cctggcggtg	tggcaggcgc	ctgtagtccc	agctacttgg	gagctgaggc	aggagaatgg
7141	agtgaacccg	ggaggcggag	cttgacgtga	gctgagatca	tgccactgca	ctccccctg
7201	gggcaacaga	gtgagactcc	caaaaaaaaa	aaaaaaagcc	ccccctcccc	acacacaata
7261	atataaataa	ataaataacc	acaatactat	tatcacatct	tacaaaactca	acaaaaatth
7321	cttaatatca	tcaaataacc	agtttgtgtt	caaattttcc	tgattgtttc	ataaatatac
7381	tcttacagtt	ggtttctttt	agcgagattc	aaatgagacc	cacctgttga	cctttgcccc
7441	taggggtttcc	caggggtctga	attttgttga	cgacattccc	atgttgctat	gtaatacggg
7501	cctccatgcc	ctgtgttttt	ctgtaaactg	atagatgtgg	aggtgcaatg	acatttgtgt
7561	ttgatttact	ttggcaaaata	tagttcatca	gtgatactct	atacttcttg	ttgctttaca
7621	tccggaggct	gataatgtct	gcttttctct	cttttctaata	tattttgtga	aggaaaaatg
7681	tgggggggtg	ggagaaaaaa	acccttaagt	acatactcgc	taaatcacat	tgctacaggt
7741	aacttccatt	aagaacttga	aagtaaagggt	agctgcattt	tcccctaggg	aacacaatga
7801	tagacaggag	ccttagtcta	cagcttgaag	gattgttaatt	atacctaagc	aacctctctg
7861	gaccagttta	atgttattag	ctgtgatgta	tccctacctb	tgatgtcatt	atccttactt
7921	agctccctta	aagcagagat	caagatgaaa	agggcttcag	ctgcagcatg	gcacatggag
7981	attagagtgg	ggctttttgga	tgctgaggag	cagacctaga	atgggaaata	gatgggagcc
8041	acagaagtga	aggtccccct	ccctcattgc	tcaacctact	ccacatctcc	aggtctgcac
8101	atctgttcag	ttactgaatc	ctgtgtgaagc	taccttcttt	ttcttttttt	ttttatttat
8161	ttattttatt	ttttttttgag	atggagtttt	gctcttggtta	cccaggctgg	agtgcaatgg
8221	tgcaatctcg	gctcactgca	ccctccaact	cccagggttca	tgcaattctc	ctccctcagc
8281	cttccaagta	gctgggatta	caggctgcac	caccatgtct	ggctaatttt	tgaaaaatca
8341	gtagagagag	ggtttcacca	tggttgccaa	gccggtctcg	aactcctgac	ctcaagtgat
8401	ccaccacact	tggectccca	aaatgctggg	attacagggtg	tgagccacca	tgcccgtgtg
8461	aaactacctt	cttaaaagct	ctagaagagg	gcttttaacc	ttttgttgtg	tgctatgcac
8521	cttccgcaag	ctgatgaagt	tgatagacc	atctcagaat	tttttttttt	tttttgagac
8581	agtgtctcac	tctgtcacc	aggattgggt	gcagtggcac	gatcatgggt	cattgcagcc
8641	tccacctccc	aggctcaagt	gatcctcctg	actcagcctc	ttgaatagct	gagaccacag
8701	gcttgtgtca	ccatgcccag	gtaattttta	attttttttc	gtagaggcag	ggtctcacat
8761	tatgttgccc	agtctggcct	cgagaactcc	tggtctcaag	caatcttcc	gccttgggct
8821	cccaaagtgg	tgggattaca	ggggagagcc	accacacctta	gccaggagga	tgtttttaaat
8881	acaccaaata	aaacatttat	acccaaatac	agttatccaa	atattaaatt	aacaagagtt
8941	agggtgaccc	tattaattag	tgtaatttcc	aaatagtaat	gaacataagt	gatagtttga
9001	gattttctgtg	actttttctaa	tgtgacgtga	aaatatttgt	gatttttctt	tttctttttt
9061	tttttttgaga	tggagtttctg	ctcttgttgc	ccaggctgga	gtgcaatggc	aagatctcgg
9121	ctcacctcaa	cctccgcctc	ctgggttcaa	gcgattctcc	tgccctcagcc	tcttgagtag



# FIG. 18D

9181	ctgggattac	aggactgtgc	caccacgtcc	agctaatttt	gtatttttag	tagaaacagg
9241	gtttctccat	gttggtcagg	ctggtcttga	actcccaacc	tcaggcgatc	cgcccgcttc
9301	ggcctcccaa	agtgtcggga	ttacaggtgt	gagccaccgc	acctggccaa	tatttgtgat
9361	ttttattgac	gacaaagtca	aaggttctct	tcatattatt	gtggtgtatc	gcctacaagc
9421	ataattaaaa	taaacactaa	atttcagttt	aaagtttact	gaaaataaat	atgtattttt
9481	tattccctat	ttaagctttg	aatccccga	cttcctatac	cattaccact	gtcctagtto
9541	agggttcatgt	tgttttttac	tttaattgtt	atcacagtct	cttaacattt	ctccctatgt
9601	tctccagtc	tgtaggtgct	aaatctgaag	tggctacttc	tcagcttgga	atccttcagt
9661	gcaccaccac	agccttgaac	tacatatttg	aaatacatat	ttattttcag	taaactttaa
9721	actgaaattt	agtgtttatt	ttaattatgc	ttgtaggcga	tacaccacaa	taatatgaag
9781	agaacctttg	actttgtcgt	caataaaaag	tcccttgagg	ggacttcaga	tgtaggtccc
9841	ttagctgtct	gttaaaactc	ccccaggtcg	acccaataca	caatcttgac	tttaaaccac
9901	ttgtcattct	aaatcactag	catttcctgg	aaaaaaaagc	catttttctt	tcagggctaa
9961	gctcagggac	caattctgtg	tcaccttctt	tgaatcctga	tgatattcac	ttctttatgt
10021	gacctgattt	attgggcccc	agacaccatg	ctgagtgttg	gggattccagc	tctggacaat
10081	gtcaaatgtc	agtccctgct	ttcagatcct	ttctactggg	tgagccctgg	agtgtcgggt
10141	ctcctcgagg	tgtctgctgt	gctcctcctg	cagatcactc	ttggcctcgt	cttctctcgc
10201	ctgcagtaca	gactgagagg	tacagggcag	aggggtgggtg	gatcaggatc	ctttctttaa
10261	atgagctggc	ttcttgaggc	tacaccactt	aacatgtatt	tgtgagtgc	ttctgggttc
10321	agaagttctt	ctcactattg	agtataaag	aaaaaaaata	actccatgat	gaaagagttt
10381	tacatcttac	ggaatgcttt	catatgaata	atcggaccta	gcatttccct	atgagctaac
10441	tatgccatat	agtaacccca	ttttacagag	gatacaactg	aggccaggag	tagttcagtg
10501	acttactcaa	accgatataa	cttataagtg	gtagagctga	ggcctctgta	tcatacctag
10561	cagctccatg	caacttgga	gagtgtagc	ttcgaagtca	gacaggtcta	ggctattagg
10621	agttttgaat	aaagatactg	aagtgaaggt	ctctaccaca	cagtaggcgt	tcgaaaattg
10681	tttctctctt	ctccattcaa	cactgaggac	tcaggttcag	ctgctgatga	agctcctctt
10741	ttttgcctag	agctttcatt	ctgagccttc	tctcctacc	aagtgtctcc	ccaatgccag
10801	agcaggaaga	gtcttcactc	ctcccaatgc	cccacctccc	atttggttact	aagaggagag
10861	gagaaaagtag	caaggagggt	atgggggaatg	ttctggggga	atgggtgttg	gtgcgatcaa
10921	caacaaagtc	ctttctctca	ccttgaattc	atcccagatg	cctgcttgtt	tacttcttcc
10981	acacaaaaaa	aggccttcag	ccctcatggc	tgagcagaaa	gaatctgaat	gttagagtca
11041	ggcagcctgg	gtttgaattc	catctcaggt	actgaactct	atagcaaaat	tcttagatcc
11101	tccaagcttc	agttgccttg	tctgtcaaat	agagaaaaa	tcacaaagta	gctagctact
11161	ggaggattaa	agtcatgcaa	agtgcctact	acaaatccag	gtggcttttag	ataaacaag
11221	cactaaatgt	tcagctcctc	cctcctcatt	cagatgggaa	tgagcttttag	ggggcgaaga
11281	tggcaacgca	gtgggctgga	gcagctctgt	gaactgagaa	tccaagaaaa	tctttattcg
11341	gcagctggga	tgtattggat	gcttgtgctg	gcttggagca	ttgtctacat	aatccagtgc
11401	ctattgtatc	tagactatag	ctagagaaa	agccgcaacc	attggcttta	caagggggcc
11461	tcttctact	ctcctgaggt	tgtttccagg	ctgcagagaa	atagcctgca	taaaatgttg
11521	aggcgtctgg	tgtgggagg	tcccaccga	gagccagAAC	atgcaggAAC	atcgtttctc
11581	cctttttcta	ttttaggaaa	acttcgagca	gagataggtg	agttccagtc	ggaccgtctc
11641	ccaattcttg	ccttttggtt	ttttggcata	acggaaaatgg	tccattctct	tgtgtcgtgc
11701	tccctctcaa	taccctgttt	tcccctcagt	ttccctttct	ctacagtggg	cctttttgga
11761	ctagaacaag	ttttaagtaa	ttaaataaca	aagactcagg	ataaaaaggat	cggacttttg
11821	gtgcctact	aaatccattt	ccatttgttt	ctctttcaga	gaatctccac	tagttccagt
11881	gtaagtccg	gcattgtctag	gcctcccag	gtcaacttgg	tatttcaact	tctctttctt
11941	cacctggggg	aacaaggacc	cctggctcct	gggtgagtc	cttctctctt	aaatactcat
12001	ttcttttaaat	aagaagtcac	ttgcatttag	gattggtaaa	atcataataa	atcttattct
12061	gtactgtttt	tatgtgccag	gcactattct	aactacttta	caaaaacggt	ggtaaataga
12121	gttttaactcc	ttatgcacac	gatctctctt	ttcaggaatg	caaaaacaga	acaagacaca
12181	togttttacac	gtaaacctga	tgtctgggtg	gggaggtgaa	caaaaacagaa	



# FIG. 18E

12241	actgtatcac	ctgtacttat	atctctgctt	tacaaactca	ggatgtttcc	atgagtacag
12301	aacatgacta	atcagagaag	acctcataga	ggaatagaaa	agccaccaag	ccccactagg
12361	aattgacccc	tcaaggacat	ggtttctagc	ctttttgttc	actgcagatt	gcccactgcc
12421	taaagataat	ggcaacagaa	gagcacccaa	atattttgta	gataaatgtt	gcagacacta
12481	gaaggtgtca	ttagggcaca	gatgggtacct	tctctgagca	aacttccttc	acagctcctc
12541	ctcccagggc	tgtaggtgac	tctactcttg	tcacctggca	cacagagttc	tatcgtacga
12601	tttaggaaat	tagaccagt	tgtggaccac	acacacacac	atctttacac	acccaaagag
12661	gaggaatagt	atctttgttt	tggaggactt	gactatgaaa	ggctttaact	cctttttgta
12721	ccatgaatct	ctctggcact	ccagtgaagt	ctaaaggacc	cctttgcaga	atgtttttta
12781	atatacacat	aaaatagaac	acataggatt	gcaaaaacaa	tcattgtact	aaaatacagt
12841	tatcaaccga	taatcacatt	tgtgatata	taacataaat	gtttcttttt	tttttttttg
12901	gaggcagagt	ttggctcttg	tcaccagggc	tggagtgcga	tggcgcgatc	taggctcact
12961	gaaacctctg	cctcccgggt	tcaagcgatt	ctcagcctcc	tgagttagctg	ggattacagg
13021	tgcccgccac	cacaccagc	taatttttgt	attttttagta	gagactagg	ttcaccagg
13081	tggccaggct	ggcctcgaac	tcttgacctc	agggtgatcca	cctgccttgg	cctcccaaag
13141	tgctgggatt	acgggcatga	gccaccgtgc	ccggccataa	atatttcttt	agccaaagta
13201	atacattaag	taatgtagca	gcaagtctaa	taacctgtaa	tttctttctt	tctttctttc
13261	tttctttttt	tttgagatga	agtttttttg	agatggagt	caatggcaca	atctcggctc
13321	actgcaacct	ccacctcctg	ggttcaagcg	attctcctgc	ctcagcctcc	caagttgctg
13381	gaactacagg	cgcattgccac	catgcccagc	taatttttgt	attttttagta	gagacgggg
13441	ttcaccatgt	tggccaggct	ggtcttgaac	ccctgacctc	agggtgatctg	cctgccttgg
13501	ccttccaaag	tgctgggatt	acaggcatga	gccaccaggc	ccagcccaat	aacctttaat
13561	ttcaacatac	taataaacat	aaacagtatt	tcaagatttc	tgcaataact	ctaattggga
13621	tgaaaacatc	tgtggcttcc	attggtaatt	aagtcacagg	tactgctcat	attgtgggta
13681	gttgtaaaat	gtttttgggtt	gtttttgttt	ttccaagact	tgggggaatg	gggtgtgggtg
13741	ggatcaacaa	gagtcttctg	ctgtggccca	ggctggagt	caggggcagg	atcttggctc
13801	actgcaacct	ccgcctccca	ggttcaagcg	attctcctgc	ctcagcctcc	tgagttagctg
13861	gcattacagg	catgtgccac	cacgcccagc	taatttttac	attttttagta	gagatgggg
13921	ttcaccatgt	tggcctggct	ggtcttgaac	tcttgacctc	atgatccacc	cgtctcggac
13981	tcccagagt	ttgggattac	aggcatgagc	caccacacct	ggcagttgtt	acatttttaa
14041	tgaaagaaaa	tgttaaatcc	agttattgaa	aataaggagg	cagtactttt	ctcatccaag
14101	ttcatggact	ttctgaattt	tgtccccaga	gtcctttggg	gttctaggac	cccagggtta
14161	ggaacccaaa	aagacagggtg	ggtggggcat	gaggggggaa	acatgttaat	ccctgtttgt
14221	tctgggtgaac	aattoagatc	cccactttct	gaggggtgcc	tgctgggaaga	taacctgttt
14281	tgtaattgtg	ccggttcttg	gaccttgggt	tgcttgatc	atctgctaca	actggctaca
14341	tcgaagacta	gcagggtgcag	tggctgggca	gcaggcaaga	ccaccaata	gtggggggacc
14401	aagtcagctc	tgaatgggaa	gccaaaagag	aatagaacca	ggactcaaga	ttagggggagc
14461	tgggatttcc	ttattcctct	gtccccatgc	ccaaccccag	gctcttctga	gaaactgtga
14521	agagaaccac	ttactggatc	tgtgggatcc	cccagtggaa	agggcagtg	gggtcactcc
14581	aaatgtccat	agggaggatg	tgggggaagg	gctattcctc	ttccactaat	cacatatttg
14641	tttctttttg	ttttcagggc	aattccttga	agagctacgt	aagttctctt	ctctctgtta
14701	taagcagaga	ataaaaagcc	aggaaaaggga	gacagaagca	acaagaggaa	gagggcgggt
14761	attgagggat	cacattccca	gaggaaaagg	ggagctggag	agcctgggtg	gaggggaagac
14821	tcctcctggg	aggtagagg	caaagaagcc	agctgttaga	gacacattta	caggtggcag
14881	agaagctgga	ggcaactcta	tctgccacct	gatccattcc	tccttactcg	cccctaagca
14941	ggaatccaac	cctagctgg	ctcattggcc	attccacagc	aactgcccag	tgccctacct
15001	ctcagatcaa	ccattgaggc	aggaatggag	acaagatgac	cccaagggct	tttctttctc
15061	ctagtccaat	ggttttatga	tacaaactac	tgacatacgt	ttttcaagtt	attttctcct
15121	tcttctagga	aatcccttct	gagtgatgtc	acatcttggc	aggggtggag	gagagcctgg
15181	ttgccagggg	atttgtcctt	ggggacatct	catccatcaa	gttgacact	cactggcatc
15241	tttgctatgg	ggacattcca	atctgcactt	tcaggaacac	tctgaattcc	aagtagaatt

# FIG. 18F

15301	gatttccctt	cttctgtcat	ctaccttttc	tcttcatttt	cccattttta	ttacccttct
15361	ttccattttt	ctctccagtc	ttccacctgg	aagccctctc	tggctaagga	caggcaggtg
15421	cccctctctc	catcagagga	cacctgtact	ggagagcaac	acaggatggt	ctctgccatg
15481	aactggaggc	caggaatctc	ctcactgaaa	attacagtat	ggtaactttg	caaatggtgg
15541	ttgtttcttc	caagactcca	gccttgattg	cgcaaaactg	aaaggcatgt	gaagggaagg
15601	aagaggaaga	gtgcaaaaca	ttgaagagag	agctgagtga	gctgaagagt	gaggatatga
15661	gtagcccca	cccaaacctg	gagatgggga	gaaacctaca	gaatactagc	cagagctcct
15721	ccttgtcttg	gcagcctact	agggacctgg	ggaagcaaaa	acgaaagctg	ggcaacatgc
15781	ctgctttaga	atgttttctc	tctacttaca	catcttccac	aggtctcaga	atctttcctt
15841	cctctcatcc	ttttctccta	tctacatata	tatcagagta	tccactgttt	attcaacaac
15901	tactacttga	tggtcagaca	caaacaaaca	agctaggtgc	taattaataa	agatacaggt
15961	tttggccggg	tgcggtggct	cacgcctgta	atcccagcac	tttgggaggg	cgaggcgggg
16021	gaatcacgag	gtcaggagtt	caagaccagc	ctggccaaca	tggtgaaacc	ccatctctac
16081	taaaaataca	aacaattaac	tgagcatagt	ggtgggcacc	tataatacca	gctactccgg
16141	aggctgaggg	aggagaatcg	cttgaacca	ggaggcagag	gttgcagtga	gctgagatcg
16201	cgccactgca	ctctagccgg	agtgcacagag	taagactctg	tctcaaaaat	aaataaataa
16261	ataaataaat	aaataaataa	ataaataaaa	aataataata	caagttttca	taagcacact
16321	tctaaccctt	tgtcttttat	gtatttccct	ccttatccac	gcacctgtct	ccctctactc
16381	cagcctcatt	accccagagg	tcagtcctca	ggaaaactaa	acacaaagaa	agagctcagt
16441	cagaaaggcc	atttatttat	gtttcaagat	gctcactgcc	tcctttgttt	tgtctccttt
16501	gcaggccctt	tctcttaggc	ctcttctcct	gggggtatgg	atcctggggg	gagattgatc
16561	acctccatgc	ttccattcct	ccccagccat	agtggggaca	tcctgagaga	agccaagcca
16621	ctggcccagg	atcacccggc	atttatgggtg	gctgctctgg	cacaggctct	tgcttttata
16681	gcccctccag	tgatccataa	ggccctcttt	ctccccaag	gagagggtcac	agatagggca
16741	aaggtagctc	ttctgcttcc	agtgggtctg	ctgggtgtctg	accagcctgg	aaaatgagct
16801	gaaagacttg	ctgcaatgga	agcagtagtt	gggcggctct	gtgagggtggc	ccttctgggtg
16861	tctggagaga	taggatttct	tgctaaaagt	caaagaacaa	tgggggcaac	agaagacatt
16921	gagtcttgag	ggcttccactg	gatgagagtt	ggatctggca	tcctgacaga	gggttccagt
16981	gatgggtgcc	tgggtcctgg	tcacagggtgc	ttggttctta	agtacagatg	cctggttctg
17041	ggccatagga	ccctcagttc	taaatatggg	ttcctgggac	ctggccactg	gtgcatgggtt
17101	cacatccaaa	agcccttgga	tggacctctg	gcttctggcg	atgggtgtct	ggaattcagc
17161	ctgggtgcct	ggaatcctca	aagtacactc	ctggtttcca	tccactggct	cctggttttg
17221	gtgtatcttc	tggtggcggt	tgagctcaga	ctgggtcccg	aagctcttcc	cacacacaga
17281	gcatgaatgg	ggccggtaac	ccagatggac	gcggcggtga	cgacttagtc	cagaagcatc
17341	acagtaggtc	ttgtcacaga	gcgtgcaaca	gaagggcctc	tcccaagat	gcatgcgtct
17401	gtgatagctg	agggacttgg	ggctccgaaa	caacttccca	cactgactgc	agctgttagt
17461	cagcttgagg	ttgtgaacaa	actgggtggct	atagaggtag	gagcgccctgc	tgaaacattt
17521	ggcacagggtg	tagcaaaa				

# FIG. 19

```

1   tttgtatgtc attgcaggat tcattgctttc cagtgtgtca tctatggaac tgcctctttc
61  ttcttccttt atggggccct cctgctggct gagggcttct acaccaccgg cgctgtcagg
121 cagatctttg gcgactacaa gaccaccatc tgccggcaagg gcctgagcgc aacggtaaca
181 gggggccaga aggggagggg ttacagagge caacatcaag ctcattcttt ggagcgggtg
241 tgtcattgtt tgggaaaatg gctaggacat cccgacaagg tgatcatcct caggattttg
301 tggcaataac aagggtggg gggacaa

```

# FIG. 21

```

1   masqkrpsqr hgskylatas tmdharhgfl prhrdtgild sigrffggdr gapkrsgskd
61  shhpartahy gslpqkshgr tqdenpvvhf fknivtprtp ppsqgkgrgl slsrfswgae
121 gqrpgfgygg rasdyksahk gfkgydaqgt lskifklgr dsrsgspmar r

```

# FIG. 22

```

1   mglleccarc lvgapfaslv atglcfffva lfcgcgheal tgtekliety fsknyqdyey
61  linvihafqy viygtasfff lygalllaeg fyttgavrqi fgdyktticg kglsatvtgg
121 qkgrgsrgqh qahslervch clgkwlghpd kityaltvvw llvfacsavp vviyfntwtt
181 cqsiafpskt sasigslcad armygvlpwn afpgkvcsn llsicktaef qmtfhlflaa
241 fvgaaatlvs lltfmiaaty nfavklmrg gtfk

```

# FIG. 23

```

1   maslsrpslp sclcsfllll llqvsssyag qfrvigprhp iralvgdeve lpcrispgkn
61  atgmevgwyr ppfsrvvhly rngkdqgdgq apeyrgrtel lkdaigegkv tlrirnvrf
121 deggftcfr dhsyqeeam elkvedpfyw vspgvlvlla vlpvlllqit lglvflclqy
181 rlrklraei enlhrtfdph flrvpcwkit lfviwpvlgp lvaliicynw lhrrlagqfl
241 eelrnpf

```

# FIG. 20

1	ctgtatcagt	gctcctcgtc	gcctcactgt	acttcacgga	agagacttgg	ttgactggcc
61	acttggagcg	gaatcaggag	acattcccaa	ctcagagaga	ctgagcccta	gctcgcccac
121	ttgctggaca	agatgatatt	ccttaccacc	ctgcctctgt	tttggataat	gatttcagct
181	tctcgagggg	ggcactgggg	tgcttgatg	cctcgtcca	tctcagcctt	cgagggcacg
241	tgtgtctcca	tcctctgccg	tttcgacttc	ccggtatgagc	tcagaccggc	tgtggtacat
301	ggcgtctggg	atctcaacag	tcctacccc	aagaactacc	cgccagtggg	cttcaagtcc
361	cgcacacaag	tggtccacga	gagcttccag	ggccgtagcc	gcctgttggg	agacctgggc
421	ctacgaaact	gcaccctgct	tctcagcacg	ctgagccctg	agctgggagg	gaaatactat
481	ttccgaggtg	acctggggcg	ctacaaccag	tacaccttct	cggagcacag	cgtcctggac
541	atcatcaaca	cccccaacat	cgtggtgccc	ccagaagtgg	tggcaggaac	ggaagtagag
601	gtcagctgca	tggtgccgga	caactgccc	gagctgcgcc	ctgagctgag	ctggctgggc
661	caagaggggc	taggggagcc	cactgttctg	ggtcggctgc	gggaggatga	aggcacctgg
721	gtgcaggtgt	cactgctaca	cttcgtgcct	actagagagg	ccaacggcca	ccgtctgggc
781	tgtcaggctg	ccttccccc	caccaccttg	cagttcgagg	gttacgccag	tctggacgtc
841	aagtaacccc	cgggtgattgt	ggagatgaat	tcctctgtgg	aggccattga	gggctccac
901	gtcagcctgc	tctgtggggc	tgacagcaac	ccgccaccgc	tgctgacttg	gatgcgggat
961	gggatggtgt	tgagggaggc	agttgctgag	agcctgtacc	tggatctgga	ggaggtgacc
1021	ccagcagagg	acggcatcta	tgcttgccctg	gcagagaatg	cctatggcca	ggacaaccgc
1081	acggtggagc	tgagcgtcat	gtatgcacct	tggagagcca	cagtgaatgg	gacggtgggtg
1141	gcggtagagg	gggagacagt	ctccatcctg	tggtccacac	agagcaaccc	ggaccctatt
1201	ctcaccatct	tcaaggagaa	gcagatcctg	gccacggtca	tctatgagag	tcagctgcag
1261	ctggaactcc	ctgcagtgac	gcccagggac	gatggggagt	actggtgtgt	agctgagaac
1321	cagtatggcc	agagagccac	cgccttcaac	ctgtctgtgg	agtttgetcc	cataatcctt
1381	ctggaatcgc	actgtgcagc	ggccagagac	accgtgcagt	gcctgtgtgt	ggtaaaatcc
1441	aacccggaac	cctccgtggc	ctttgagctg	ccttcccgca	acgtgactgt	gaacgagaca
1501	gagagggagt	ttgtgtactc	agagcgcagc	ggcctcctgc	tcaccagcat	cctcacgctc
1561	cggggtcagg	cccaagcccc	accccgctgc	atttgtacct	ccaggaacct	ctacggcacc
1621	cagagcctcg	agctgccttt	ccagggagca	caccgactga	tgtgggcca	aatcgccct
1681	gtgggtgctg	tggtcgctt	tgccatcctg	attgccattg	tctgctacat	caccagaca
1741	agaagaaaaa	agaacgtcac	agagagcccc	agcttctcag	cgggagacaa	ccctcatgtc
1801	ctgtacagcc	ccgaattccg	aatctctgga	gcacctgata	agtatgagag	tgagaagcgc
1861	ctgggggtccg	agaggaggct	gctgggcctt	aggggggaac	ccccagaact	ggacctcagt
1921	tattcccact	cagacctggg	gaaacgaccc	accaaggaca	gctacaccct	gacagaggag
1981	ctggctgagt	acgcagaaat	cagagtcaag	tga		

SPD  $\rightarrow$   
 $n=5, 5$   
 TS, 50mm

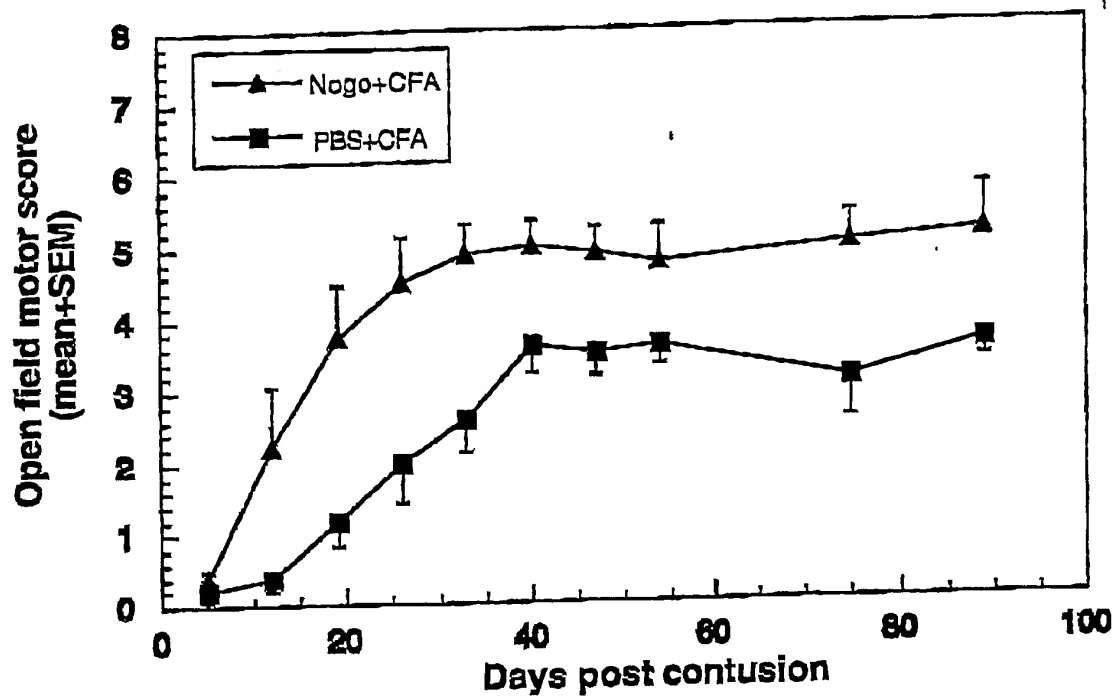


FIGURE 24A

SPD  $\rightarrow$   
 $n=5, 5$   
 T9, 28mm

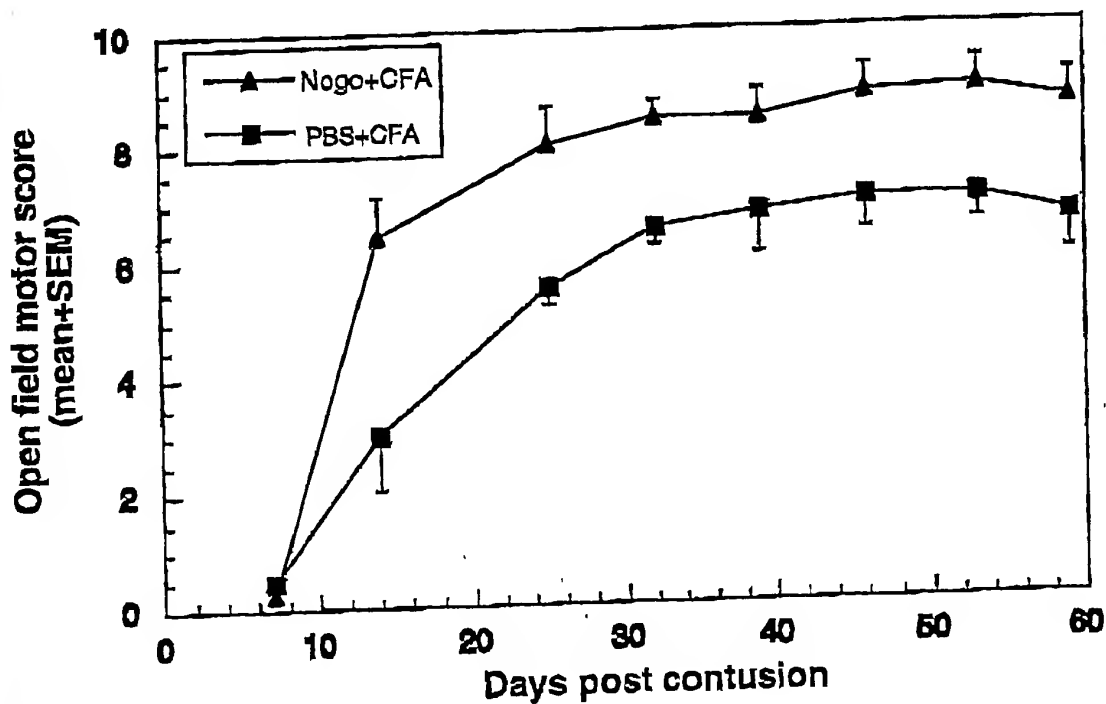
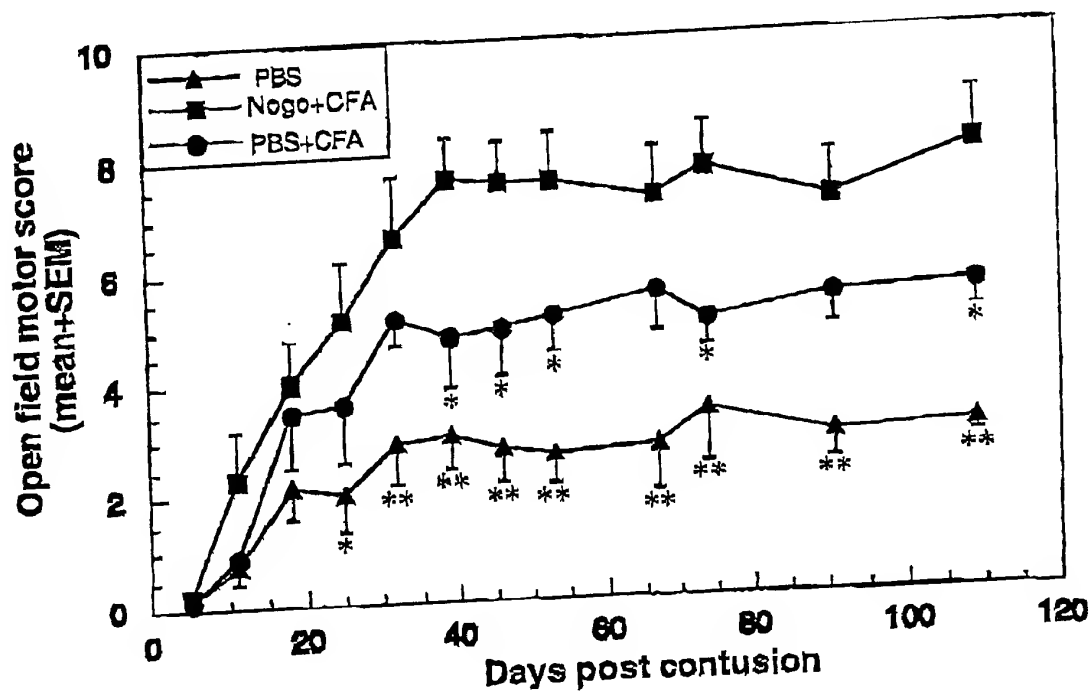


FIGURE 24B



SPD females (n=5), 50mm T9 contusion, CFA 1mg/ml after the contusion, boost with IFA 7 days later.

t-test: \*P < 0.05, \*\*P < 0.01  
compared to Nogo+CFA

FIGURE 25